CIMS Lab, Inc.

CIMS Server

Web Reporting User's Guide

Version 4.2

CIMS Lab Publication Number: CS-WR-420-00

Published 10/03/05

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Preface

CIMS Web Reporting is a key portion of the CIMS Server chargeback system. It offers a full range of IT resource reporting features that are accessible via your Web browser.

The technology behind CIMS Server and CIMS Server Web Reporting is based on CIMS Lab's many years of experience in the development and implementation of Resource Accounting, Capacity Planning and IT Chargeback products.

About CIMS Lab

Founded in 1974, CIMS Lab has focused on meeting the financial and resource reporting requirements of Information Services Departments. CIMS has evolved with corporate IT management requirements. Focused commitment to client service and support sets CIMS apart from competing products. Our goal is to provide the best chargeback and resource reporting software in the world at the lowest possible cost to our customers.

CIMS Lab strongly believes in and executes the concept of continuous product improvement. Customers have access to CIMS product development personnel to ensure that customer feedback and other critical issues are incorporated into the next release of the product.

Contacting CIMS Lab

To contact CIMS Lab with questions, comments, or problems, please use one of the following methods:

For product assistance or information:

USA & Canada, toll free - (800) 283-4267 International - (916) 783-8525 FAX - (916) 783-2090 World Wide Web - http://www.cimslab.com

Mailing Address:

CIMS Lab, Inc. 3013 Douglas Blvd., Suite 120 Roseville, CA 95661-3842

About This Guide

This guide explains how to use CIMS Server Web Reporting. Note that some features described in this guide might have been customized for your organization. In this case, consult your CIMS Server administrator for assistance.

CIMS Server Web Reporting is a component of CIMS Server. This guide assumes that you have the CIMS Server system installed and configured as described in the *CIMS Server Administrator's Guide*.

This guide contains the following chapters:.

Ch. No.	Chapter Name	Content Description
1	Getting Started	Introduces the CIMS Server Web Reporting interface and provides steps for logging in and out and other tasks.
2	Running Reports	Introduces the different report types and describes how to run these reports.
3	Working With Reports	Describes how navigate and use generated reports.
4	Running and Working With CIMS Advanced Spreadsheets	Describes how to use CIMS Advanced Spreadsheets.
5	Administering CIMS Server Web Reporting	Describes how to configure user- specific and system-wide administration settings for CIMS Server Web Reporting.

Ch. No.	Chapter Name	Content Description
6	Using Transactions	Describes how to use Miscellaneous, Recurring, and Credit transactions.
7	Troubleshooting	Describes problems you may encounter while using CIMS Server Web Reporting and how to solve them.
A	Standard Reports	Describes the standard graphs, reports, spreadsheets, and templates available with CIMS Server Web Reporting.

Terminology Used in This Guide: Reports, Graphs, and Spreadsheets

For simplicity, in this guide, the term "report" refers to reports, graphs, and spreadsheets unless noted otherwise.

Conventions

Some or all of the following conventions appear in this guide:

Symbol or Type Style	Represents	Example
<u>Alternate</u> <u>color</u>	hyperlinked cross-references to other sections in this guide; if you are viewing this guide online, you can click the cross-reference to jump directly to its location	see Related Publications.
Italic	words that are emphasized	the entry <i>after</i> the current entry
	a new term	by <i>identifier</i> values.
	the titles of other manuals	CIMS Server Administrator's Guide
Bold	names of interface items such as	The Reports menu
	tabs, boxes, buttons, lists, and check boxes.	Select the Change Password check box
		The Group Tree appears in the Preview tab
Monospace	directories, file names, command	Server folder
	names, computer code, computer screen text, system responses,	ProcTransactions.wsf scipt
	command line commands, what the user types	Typeiisreset /restart

Symbol or Type Style	Represents	Example
<>	the name of a key on the keyboard	Press <enter></enter>
•	navigating a menu or a folder	Reports > View Published Reports

Related Publications

As you use this guide, you might find it helpful to have the *CIMS Server Administrator's Guide* available for reference.



Getting Started

This chapter describes how to get started using CIMS Server Web Reporting. CIMS Server Web Reporting is accessible via your Web browser (*Starting CIMS Server Web Reporting* on page 1-2).

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1-1

About CIMS Server Web Reporting

CIMS Server Web Reporting enables you to generate and view IT chargeback and resource accounting reports from a Web browser. These reports include invoice, budget, summary, trend, and variance reports in report, graph, and spreadsheet format.

You can save, copy text from, and print reports. In addition, many reports generated using CIMS Server Web Reporting include multi-level drill down capabilities that enable you to view detailed resource usage and cost information.

CIMS Server Web Reporting supports reports written in any of the following:

- Crystal Reports.
- SQL Server Reporting Services
- XML (this is the format used for CIMS Advanced Spreadsheets, see Chapter 4, Running and Working With CIMS Advanced Spreadsheets)

Note • Although CIMS Server Web Reporting is designed to use the preceding reporting tools, you might be able to use other reporting products. For more information, contact CIMS Lab (see *Contacting Technical Support* on page 7-5).

Types of CIMS Server Web Reporting Users

There are two types of CIMS Server Web Reporting users:

- Administrators. Administrators can perform administrative functions in CIMS Server Web Reporting such as changing the configuration options for the application (see *Configuring System-Wide Settings* on page 5-8). Administrative access is assigned by your CIMS Server administrator. For more information, refer to the CIMS Server Administrator's Guide.
- **End Users.** End users have no administrative privileges.

The terms CIMS Web administrator and CIMS Web end user are used in this guide to differentiate the two user types when needed.

Starting CIMS Server Web Reporting

To start CIMS Server Web Reporting, open your Web browser and enter the *URL* for CIMS Server Web Reporting in the **Address** bar. The specific URL depends on your organization—see your system administrator for the URL. The following is an example of a URL for CIMS Server Web Reporting:

http://<intranet>/cims/

If you are running the browser on the server that is running CIMS Server Web Reporting, enter the URL http://localhost or http://servername, where servername is the name of the local server.

Logging On To CIMS Server Web Reporting

There are two methods for logging on to CIMS Server Web Reporting:

Auto log on. Auto log on enables you to use CIMS Server Web Reporting without first logging on to the application through the Login page. If your CIMS Server administrator has enabled auto log on for your user ID, you will see the following message on the home page when you start CIMS Server Web Reporting:

Welcome username, you are currently signed on as userid

If you are a CIMS Web administrator, you can click **Login** to open the Login page and log on as another user if needed (see the steps under the following bullet, **Manual log on**). If you are a CIMS Web end user, the Login page is inactive.

Manual log on. If your CIMS Server administrator has not enabled auto log on for your user ID, you will see the following message on the home page when you start CIMS Server Web Reporting:

Not currently signed in, please click Login to begin

To log on, do the following:

- 1 On the CIMS Server Web Reporting home page, click **Login** to open the Login page.
- 2 Enter the following information, and then click **OK**:
 - Your user ID and password (required). If you do not know your user ID and password, contact your CIMS Server administrator.

The password is case-sensitive. Type the password exactly as provided by your CIMS Server administrator.

• Your company or organization name (if the **Your Company or Organization** box is present). Your CIMS Server administrator determines whether this box is present on the Login page. For more information, refer to the *CIMS Server Administrator's Guide*.

Your company/organization name is saved in a *cookie* so that you do not have to re-enter it each time that you log on.

The CIMS Server Web Reporting home page reappears as shown in example Figure 1-1 on page 1-4.

Getting Started

Logging On To CIMS Server Web Reporting

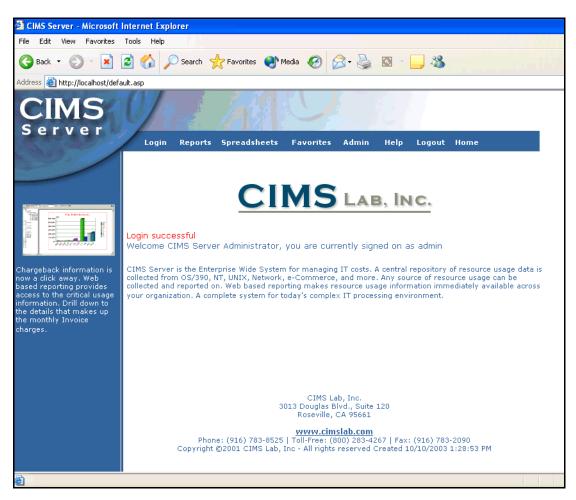


Figure 1-1 • CIMS Server Web Reporting Home Page

Using the Menu Bar

The menu bar enables you to easily navigate CIMS Server Web Reporting features. The use of the links and menus contained on the menu bar are discussed in the following chapters.

Figure 1-2 provides an overview of the functions of each of the links and menus on the menu bar.

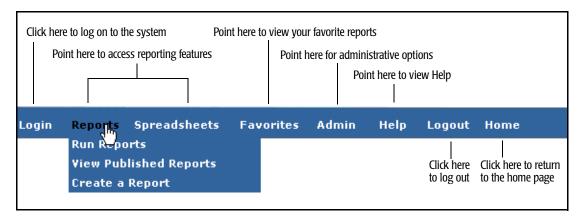


Figure 1-2 • CIMS Server Web Reporting Toolbar

Changing Your Password

Note • If you are a CIMS Web end user and are using auto logon, the information in this section is not applicable. However, if you are a CIMS Web administrator using auto logon, you can change the password of other users using the following steps.

Your CIMS Server administrator assigns user IDs and passwords using the CIMS Server Administrator program. If the **Change Password** check box is present on the Login page, you can change your password as follows:

- 1 Click Login to open the Login page.
- **2** Type your user ID, current password, and company or organization name (if required).
- 3 Select the Change Password check box and then click OK.
- **4** On the Change User Password Page, type your current password and the new password as directed. The password is alphanumeric and case-sensitive and can be a maximum of 16 characters.
- 5 Click OK to change the password and return to the home page.

Your CIMS Server administrator determines whether the **Change Password** check box is included on the Login page. For more information, refer to the *CIMS Server Administrator's Guide*.

Logging Off

Note • If you are a CIMS Web end user and are using auto logon, this section is not applicable.

If you are a CIMS Web administrator using auto logon, you can log on and off as other users during the same session by clicking Login and following the steps for a manual log on page 1-3.

If you are not using auto logon, click **Logout** to enable one user to log off and another to log on during the same session. The home page opens with the prompt:

Not currently signed in, please click Login to begin.

Viewing Online Help

To view online Help, click **Help**.

Timing Out

If you are inactive for a period longer then the amount of time specified on the Edit Configuration page (Admin > Configuration), the CIMS Server Web Reporting session times out. If the session has timed out, one of the following occurs when you attempt to perform another task:

- If you are a CIMS Web end user and are using auto log on, you are automatically logged out and directed to Please login. Simply click Login to log on automatically.
- For all others, you are automatically logged out and are returned to the Login page to log on again.

Assigning CIMS Server Folder Security Permissions

Note • Your CIMS Server or Windows administrator should have already set the required folder security permissions described in this section. For more information, refer to the *CIMS Server Administrator's Guide*.

All CIMS Server Web Reporting users must have the following security permissions for the CIMS Server program folders shown. If CIMS Server is installed in the default location, the folders are in C:\Program Files\CIMSLab.

Folder	Required Permissions
Server	Read & Execute
Server\Web\temp	Full Control
Server\Reports\Published	Read & Execute, Write
Admin	Read & Execute

Getting Started

Assigning CIMS Server Folder Security Permissions

2

Running Reports

This chapter describes how to run reports in CIMS Server Web Reporting.

Note • For simplicity, the procedures in this section reflect commands in the Reports menu. However, these procedures are also applicable to spreadsheets. For example, if you are instructed to click Reports **>** Run Reports, the corresponding sequence for spreadsheets is Spreadsheets **>** Run Spreadsheets.

This chapter is not applicable to the CIMS Advanced Spreadsheets feature. This feature is discussed in *Chapter 4, Running and Working With CIMS Advanced Spreadsheets*.

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Introduction to Report Types

There are four types of reports that you can generate using CIMS Server Web Reporting:

Standard or Custom Reports. CIMS Server includes a variety of standard Crystal and SQL Server Reporting Services reports. These standard reports include invoice, budget, summary, trend, and variance reports in report, graph, and spreadsheet format (see Appendix A, Standard Reports).

The report descriptions and examples used in this guide reflect the standard CIMS reports. Typically, your report developer will customize the standard reports for your organization or will create new reports. Therefore, the parameters, look, and content of reports for your organization might differ.

To run standard and/or custom reports, click **Reports** > **Run Reports** and follow the steps in *Running Reports* on page 2-3

CIMS Web User Created Reports. These reports are created using report templates that are supplied with CIMS Server Web Reporting (see *Templates* on page A-107) or developed by your report developer. Template reports differ from the standard or custom reports discussed previously in that CIMS Web users can create reports that contain the data and format that they want directly within the CIMS Server Web Reporting interface.

To create a report, click **Reports** • **Create a Report** and follow the steps in *Creating and Running CIMS Web User Created Reports* on page 2-9.

Published Reports. These reports are created from generated reports. Publishing a report enables other CIMS Web users to view the report with the data as it appeared at the time the report was generated.

To publish a report, follow the steps in *Creating and Viewing Published Reports* on page 2-12.

CIMS Advanced Spreadsheets. CIMS Advanced Spreadsheets have more advanced features than Crystal Reports or SQL Server Reporting Services spreadsheets, including drill down and sorting capability. CIMS Advanced Spreadsheets are discussed in *Chapter 4, Running and Working With CIMS Advanced Spreadsheets*.

Running Reports

This section provides the steps for running a report from the CIMS Server Web Reporting application. You can also run and publish reports in batch mode as described in *Creating and Viewing Published Reports* on page 2-12.

To run a report:

- 1 Click **Reports** → **Run Reports**. The report page opens displaying reports categorized by groups.
- **2** To expand the group, click + next to the report group that contains the report that you want to run.
- **3** Links to the available reports appear. Click the link for the report that you want to run as shown in example Figure 2-1.

_	Reports		
Ξı	nvoices		
	Invoice by Account Level		
	Application Cost 🛛 🖞		
	Account Total Invoice		
	Alternate Invoice		
	Invoice with Budget		
	Invoice with Shifts		
	Run Total Invoice with Shifts		
	Run Total Invoice		
	Run Total Percent		
	Run Total Rate Group Percent		
	Zero Cost Center Invoice		
	Invoice by Account Level V2		
±,	Account Reports		
ΞŢ	Fop Usage Reports		
	/ariance Reports		
ΞŢ	[rend		
ΞF	Resource Detail		
± (Other		

Figure 2-1 • Report Links

4 If the report requires parameters, enter the parameters on the parameters page and then click **OK** to generate the report. For a description of the standard parameters supplied by CIMS Lab, see *Using Report Parameters* on page 2-4.

You can do many things with the information in the generated report such as drill down on data and print and save the report. For more information, see *Chapter 3*, *Working With Reports*.

Note • Drill down is not available for graphs, spreadsheets other than advanced spreadsheets (see Chapter 4), or CIMS Web user created reports.

You can also publish the report so that others can view it in CIMS Server Web Reporting. Published reports are saved with the data that was generated at the time the reports were published. For more information, see *Publishing Reports* on page 2-12.

Using Report Parameters

Table 2-1 provides a description of the report parameters that are supplied by CIMS Lab.

Your reports might use other parameters that are custom for your site. For information about creating custom parameters, refer to the *CIMS Server Administrator's Guide*.

The parameter values that you enter are stored in a cookie so that you do not have to reenter the values each time you run a report (unless you want to change the values).

Note • I	Parameters v	ary by re	port.
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Parameter	Description
Account Code Level	The account code level that you want to view in the report. For example, the account code AABBBBCCC might contain three levels: the two-digit company code AA, the 6-digit division code AABBBB, and the 9-digit department code AABBBBCCC. The resource use and charge data will reflect the level that you select.
	For more information about account codes, see <i>About Account Codes</i> on page 2-7.
Audit Type	The type of changes that you want to view in CIMS Client, Rate, and Transaction table audit reports: all changes, additions, updates, or deletions.
Calendar Period	The calendar period for the data that you want to appear in the report.
Display Graph	If this parameter is Y (the default), a graph appears before the report. If this parameter is N , the graph does not appear.
From/To	The beginning and end dates for the data that you want to appear in the report.

Table 2-1	٠	Report Parameters
-----------	---	--------------------------

Parameter	Description
Identifier	This parameter provides data by the selected identifier. An <i>identifier</i> is a unique key that denotes the source of a resource that has been consumed (for example, a device name, server name, user ID, phone number).
Invoice Number	Some invoice reports contain separate invoices for the account codes selected. If this parameter is blank (the default), invoice numbering begins with 1. Use this parameter to begin invoice numbering from a another number (if needed).
	Your CIMS Server administrator determines whether this parameter appears for invoices. If this parameter is not available, the invoice number set in the CIMS Config Options table in the database is used and invoice numbers continue to increase sequentially each time you run an invoice. For example, if the last invoice in a report was 99, the next invoice that you run will begin with invoice number 100. For more information, refer to the <i>CIMS Server</i> <i>Administrator's Guide</i> .
Prorate	The amount that you want to prorate across accounts in proration reports.
Rate Code	This parameter provides data by the selected rate code. A <i>rate code</i> represents resource units consumed (for example, CPU time used, pages printed, e-mail message sent).
Rate Group	This parameter provides data for the selected rate group. A rate group contains rate codes.
Report Month	The month for the data that you want to appear in the report.
Report Year	The year for the data that you want to appear in the report.
Set the Date Range	The date range or the data that you want to appear in the report.
Start and End Value	The starting and ending identifier value.

 Table 2-1
 Report Parameters (Continued)

Running Reports

Parameter	Description
Starting and Ending Account Code	This parameter works in conjunction with the Account Code Level parameter and specifies the account codes for that level that appear in the report.
	If you want all account codes for that level to appear in the report, click Lowest Possible Account for the starting account code and Highest Possible Account for the ending account code.
	If you want specific account codes, click the appropriate start and end codes or click Custom and type the start and end codes.
Transaction ID Start and End	This parameter provides data by the selected CICS transaction ID range. For example, if you want data for the following three transaction IDs: CESF, DEGV, and TINQ, type CESF as the start and TINQ as the end.
TopN	This parameter specifies the number of account codes that appear in a report or the drill down for a report. For example, if you type 1, only the account code that used the most resources or incurred the most charges appears. If you type 2, the highest and second highest account codes appear.
Transaction Type	This parameter provides data for the selected transaction type. For more information about transactions, see <i>Chapter 6, Using Transactions</i> .
Zero Cost Processing	The Zero Cost Invoice report may be processed in two ways:
Option	 A-Factor Total. This factors the invoice total by the zero cost amount.
	B-Factor Rates. This factors each resource rate by the zero cost amount.
Zero Cost Amount	The zero cost amount. You can type this amount with or without the decimal point. For example, 100000 or 100000.00. For more information about zero cost, refer to the <i>CIMS Server Administrator's Guide</i> .

 Table 2-1
 Report Parameters (Continued)

About Account Codes

An account code is an alphanumeric string that identifies the hierarchy of a resource record. Account codes contain sufficient information to describe what resource was used by what entity. These codes may contain levels such as Company, Division, Cost Center, etc.

For example, if your organization cost center structure is:

Level 1	Company
Level 2	Division
Level 3	Department within division
Level 4	Cost Center within department
Level 5	Application within cost center

Your account code structure might be designed as shown in Table 2-2.

DESCRIPTION (LEVEL)	EXAMPLE
Full Account Code	AABBBBCCCDDDAPP1
Company Code	AA
Division Code	BBBB
Department Code	CCC
Cost Center Code	DDD
Application Code	APP1

Table 2-2 Example Account Code Structure

The account codes and account code levels that appear on the parameters page are set by your CIMS Server administrator. For more information, refer to the *CIMS Server Administrator's Guide*.

Example: Running a Report

Figure 2-2 provides an example of the parameters used to create an Invoice by Account Level report for the month of June. In this example, Division is the first level of the account code. Figure 2-3 shows the resulting report.

CIMS Server - Microsoft Internet Explorer		
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Address 🗃 http://www.cimsserver.com/gov/nethook.asp?reportfile=rinvc007.rpt&repo	orttemplatefile=&reportname=Invoice%20by%20Account%20Level	3 Go 🐔
CIMS Server Login Reports Spreadsheets	Favorites Admin Help Logout Home	
Invoice by Account Level		III
Please select parameters for Reports.		
Account Code Level : Department, length 2 😪		
Invoice Number: 20		
Display Graph : 🛚 👻		_
Starting Account Code :	Lowest Possible Account	
Ending Account Code :	Highest Possible Account	
Set the Date Range : This Month 🗸		
From : 11/1/2004		
то: 11/30/2004		
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Figure 2-2 • Example Parameters for the Invoice by Account Level Report

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ile Edit View Favorites T	ools Help			
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	Invoice by Account Level	Publ	ish Return	Help
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E-Administrative Services E-Health & Human Services	CIMS			
 Department of Transportati Department of Corrections 	^{on} Invoice Billing Period: 11/1/2004 to 11/30/2004	Date range selected		
-Department of Education	Invoice No. 20 ———————————————————————————————————	bice number selected		
E-Department of Education	The Big Time Government			
	The Big Time Government Any State, USA	pice number selected		
Level 1	The Big Time Government Any State, USA		Rate	<u>Charge</u>
Level 1	The Big Time Government Any State, USA	pice number selected	Rate 2.0000000	<u>Charge</u> 18.00
Level 1	The Big Time Covernment Any State, USA AA - Administrative Services	pice number selected		
Level 1	The Big Time Covernment Any State, USA AA - Administrative Services Mainframe Jobs Started	bice number selected	2.00000000	18.00
Level 1	The Big Time Government Any State, USA - <u>AA - Administrative Services</u> Mainframe Jobs Started Mainframe Steps Started	bice number selected	2.00000000	18.00 1.80
Level 1	The Big Time Government Any State, USA AA - Administrative Services Mainframe Jobs Started Mainframe Steps Started Mainframe Batch charges	bice number selected	2.00000000	18.00 1.80 19.80
Level 1	The Big Time Government Any State, USA AA - Administrative Services Mainframe Jobs Started Mainframe Steps Started Mainframe Batch charges Tse Cpu Minutes	pice number selected	2.00000000 0.20000000 25.0000000	18.00 1.80 19.80 27.24
Level 1	The Big Time Covernment Any State, USA AA - Administrative Services Mainframe Jobs Started Mainframe Steps Started [Mainframe Batch charges Tso Councet Minutes Tso Councet Minutes	Dice number selected	2.00000000 0.20000000 25.00000000 0.02500000	18.00 1.80 19.80 27.24 18.87
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Level 1	The Big Time Government Any State, USA AA - Administrative Services Mainframe Jobs Started Mainframe Bteps Started Mainframe Bteps Started Mainframe Bteps Started Mainframe Bteps Started Tso Copu Minutes Tso Copuet Minutes Tso Connect Minutes Tso Context Minutes Tso Outputs	Dice number selected	2.00000000 0.20000000 25.0000000 0.02500000 2.0000000 /M 1.0000000 /M	18.00 1.80 19.80 27.24 18.87 2.37 1.31
Level 1	The Big Time Covernment Any State, USA AA - Administrative Services Mainframe Jobs Started Mainframe Staps Started Labeframe Batch charges Tso Computes Tso Connect Minutes Tso Loputs Tso Corpouts Tso Coupouts Tso Coupouts Tso Coupouts	Dice number selected	2:0000000 0:2000000 25:000000 0:02500000 2:0000000 /M 1:0000000 /M	18.00 1.80 19.80 27.24 18.87 2.37 1.31 0.00

Figure 2-3 • Example Invoice by Account Level Report

Creating and Running CIMS Web User Created Reports

This section describes how to create and run reports using the report templates provided by CIMS Lab. Note that templates created by your report developer may differ.

Creating or Updating a CIMS Web User Created Report

The report templates provided by CIMS Lab enable you to choose the rate codes that you want to appear in the report. You can specify that the report display the resource *usage* per rate code, the resource *cost* per rate code, or both usage and cost. All cost and usage is displayed by account code and rate code. Once you have created a report, you can update the report (for example, select different rate codes) at any time.

To create or update a report:

- 1 Click **Reports** Create a Report. The Build a Report page opens.
- 2 Enter or update the following parameters for the report:
 - **Go to Report**. Click **New Report** to create a new report or click an existing report to update the report.
 - **Report Type**. Click the report type that you want to create:
 - Resource (resource usage by account and rate code description)
 - Cost (charges by account and rate code description)
 - Both (resource and cost information)
 - **Report Name (required)**. The name that you want to assign to the report.
 - **Report Description**. A brief description of the report.
 - Make visible to all users. If this check box *is not* selected (the default), the report is available only to those in your user group. If this check box is selected, the report is available to all CIMS Web users.
 - **Resource**. In the column select boxes, choose the rate code that you want to appear in that column. You can choose up to four columns/rate codes for Both reports and eight columns/rate codes for Cost or Resource reports.
 - **Decimal Places**. Type the number of decimal digits that you want to appear in the resource usage amount.
- 3 If you are creating a new report, click Add. If you are updating a report, click Update.

Once created, reports appear on the Reports page (**Reports** > **Run Reports**) under a report group determined by your CIMS Server administrator (see Figure 2-4 for an example). For more information about setting the report group for these reports, refer to the *CIMS Server Administrator's Guide*.

Creating and Running CIMS Web User Created Reports

Running a Web User Created Report

To run a report:

- 1 Click **Reports** → **Run Reports**. The Reports page opens displaying reports categorized by groups.
- 2 Expand the report group that contains the created reports, and then click the report that you want to run as shown in example Figure 2-4.



Figure 2-4 • Example Links for Web User Created Reports

3 Enter the parameters for the report on the parameters page and then click **OK** to generate the report. For a description of the parameters, see *Using Report Parameters* on page 2-4.

You can do many things with the information in the generated report such print and save the report. For more information, see *Chapter 3*, *Working With Reports*.

You can also publish the report so that others can view it in CIMS Server Web Reporting. Published reports are saved with the data that was generated at the time the reports were published. For more information, see *Publishing Reports* on page 2-12.

Deleting a Web User Created Report

To delete a report:

- 1 Click **Reports** > Create a Report.
- 2 On the Build a Report page, click the report in the Go to Report select box.
- 3 Click **Delete** and then click **OK** in the confirmation dialog box to delete the report.

2-10

Example: Creating and Running a Web User Created Report

Figure 2-5 shows the creation of a Both report called Job Report. Figure 2-6 shows the resulting report that has been run from the **Reports** menu.

2 CIMS Server - Build a Report - Microsoft Internet Explorer		
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Address 🕘 http://www.cinsserver.com/gov/DefineCustSumRpts.asp?OutputType=R8Reset=true	💌 🄁 Go	ŧ,
CIMS Server Login Reports Spreadsheets Favorites Admin Help Logout Home		
Build a Report		
Please select parameters for Report		
Go to Report: (New Report) 💌		
Report Type: Both Report Name: Job Report Report Description:		
Make visible to all users Resource Decimal Places		
Column 1: Z001 - Mainframe Jobs Started 🕑		
Column 2: Z003 - Mainframe Cpu Minutes		
Column 3:		
Column 4:		
Add		V
	🥑 Internet	

Figure 2-5 • Example of Creating a Report

🗿 CIMS Server - Microsoft Internet Exp	olorer					[
File Edit View Favorites Tools Help							- <u> </u>
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R R 1 of 1 R	a a a	-)			
⊕ Administrative Services ⊕ Health & Human Services	CIMS						
⊕ Department of Transportation ⊡ Department of Corrections	Job Report						
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	Account	Mainframe Jobs Started	Mainframe Jobs Started Cost	Mainframe Cpu Minutes	Mainframe Cpu Minutes Cost		
	AA-Administrative Services						
	BB-Health & Human Services	9.00	18.00				
	CC-Department of Transportatio	117.00	234.00	9.61	96.10		
	DD-Department of Corrections	6.00	12.00	39.66	396.65		
		9.00	18.00	0.32	3.24		
	Run Total	141.00	282.00	49.60	495.99		
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Figure 2-6 • Example Web User Created Report

Creating and Viewing Published Reports

Once you have generated a report, you can publish the report. Publishing a report enables other CIMS Web users to view the report without having to regenerate it.

Note • Reports that involve a wide range of dates or account codes can require excessive system time and resources to generate. Consider publishing or saving these reports for quicker access (see *Publishing Reports vs. Saving Reports*).

Published reports can be created directly within CIMS Server Web Reporting as described in this section or in batch. CIMS Server includes a powerful feature that enables you to generate published reports in batch and then distribute the reports to recipients via email. For more information about generating and distributing reports in batch, refer to the CIMS Server Administrator's Guide.

Publishing Reports vs. Saving Reports

Both publishing and saving a report saves a report that you have generated. However, publishing a report saves the report on the Web server so that you and others can view it from within CIMS Server Web Reporting. (Your CIMS Server administrator determines where the published reports are stored on the server. For more information, refer to the *CIMS Server Administrator's Guide*.)

Saving a report saves the report to the local or network drive that you choose. In this case, the report is not accessible via the CIMS Server Web Reporting interface. For more information about saving reports, see *Saving Reports* on page 3-8.

Publishing Reports

To publish a report:

- 1 Run a report.
- **2** On the report page, click **Publish**. The Save Report window appears. Enter the following:
 - **Report File**. The file name of the published report. You can use the default file name or type another name. If you want to include the report in your favorites list, you need to use the default file name (see *Working With Favorite Reports* on page 5-2).
 - Location. Location specifies the subfolder name for the published reports within the overall published reports folder. By default, this folder is named Published and is in C:\Program Files\CIMSLab\Server\Reports<*type*>. For example, if you click User, the published reports are stored in the user subfolder within the Published reports folder.

Location also determines the accessibility of the report as follows:

- **User**. The report is available to the specified user only. If you are a CIMS Web administrator, you can choose any user ID within your user group. If you are not an administrator, the user defaults to your user ID.
- Group. The report is available to those in your current user group.
- Account. The report is available to CIMS users in a group that is allowed to view the selected client account code. (To enable client account code access to a group, refer to the *CIMS Server Administrator's Guide*). The report is stored in a subfolder with the same name as the account code that you click in the account list. The Account option appears only if you are a CIMS Web administrator.
- **Global**. The report is available to anyone using CIMS Server Web Reporting. The **Global** option appears only if you are a CIMS Web administrator.

Note • The preceding access permissions are applicable only within CIMS Server Web Reporting—it does not affect the ability of Windows users to access reports from the hard drive. If you want to control access to reports via Windows, you need to set Windows security for the folders that contain the published reports. CIMS Web users, however, must have the permissions shown in *Assigning CIMS Server Folder Security Permissions* on page 1-7.

- **Reporting Period**. The date period assigned to the report for storage and retrieval purposes. This date period does not affect the date of the data in the report.
- **Replace Existing Report**. Select this check box to replace any existing published report with the same file name with this report.
- 3 Click OK to publish the new report to the location that you specified.

Creating and Viewing Published Reports

Viewing Published Reports

Note • Links to published reports that are designated as favorite reports appear in the left side of the home page. Click these links to quickly access these reports. For more information about favorite reports, see *Working With Favorite Reports* on page 5-2.

To view a published report:

- 1 Click Reports > View Published Reports.
- 2 The **Published Reports** page opens. The reports that appear on this page are determined by the location that was set when the report was published (see *Publishing Reports* on page 2-12) and the **Date Range** and **Location** parameters on the page (see *Filtering the List of Published Reports* on page 2-15).
- **3** Click the report date, name, or location (if present, see the following note) to open the report.

Note • By default, published reports include the full path to the folder that contains the report. You can choose to show or hide the path (see page 5-5).

Drill down capability in published reports varies by report.

Filtering the List of Published Reports

You can filter the list of published reports using the **Date Range** and **Location** parameters as follows.

Date Range	This parameter lists reports by the reporting period that was assigned when the published report was created (see <i>Publishing Reports</i> on page 2-12). This may or may not be the date of the data in the report.
From and To	Enter the beginning and end date of listed reports if you cannot select the date that you want from Date Range .
!!!	Click the Calendar button to choose a beginning or end date for listed reports.

Location

Click one of the following:

- All. All published reports that you can view appear.
- Global. All published reports that were assigned to a Global location appear.
- **User**. All published reports that were assigned to a User location that you can view appear.
- **Group**. All published reports that were assigned to a Group location that you can view appear.
- Account. All published reports that were assigned to an Account location that you can view appear. If you click a specific account code, published reports for only that account code appear.

Sorting the List of Published Reports

To sort the list of published reports by date or report, click **Date** or **Reports**, respectively.

Creating and Viewing Published Reports

Example: Creating and Viewing a Published Report

Figure 2-7 shows the creation of a published Invoice by Account Level report.

Figure 2-8 shows the link for the resulting report on the Published Reports page (Reports > View Published Reports).

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Figure 2-7 • Example of Creating a Published Report

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Address 🗿 http://www.cinsserver.com/gov/Tsavedcntl.asp?select=1 💽 🔂 Go 📢
CIMS Server
Published Reports
Date Range: Current 11/1/2004 11/30/2004 Location: All From: November 1 2004 Location: To: November 30 2004 Location:
Date Reports Location 11/3/2004 10:48:35 AM Invoice by Account Level
Internet

Figure 2-8 • Example Published Report Link

Deleting Published Reports

Note • To delete published reports, you need to have access to the server that contains the reports.

To delete published reports, start Windows Explorer and navigate to the Published folder. Delete the reports from the applicable subfolder.

Running Reports

Creating and Viewing Published Reports

2-18



Working With Reports

This chapter describes how to navigate and use generated reports.

Working With Reports	
About the Report Interface	
Using the Reporting Toolbar	3-3
Navigating Using the Group Tree	
Drilling Down in Reports	
Publishing Reports	3-8
Saving Reports	
Copying Text From a Report	3-8
Working With Spreadsheets	3-9
About the Spreadsheet Interface	3-9
Publishing Spreadsheets	
Opening a Spreadsheet in Excel	
Working With Spreadsheets in Excel	

Working With Reports

This section describes how to navigate and use reports. Except where noted, the information in this section is applicable to all report types.

The figures in this section reflect Crystal Reports 9 using the default HTML viewer. If you are not using this setup, the interface will appear similar.

About the Report Interface

Figure 3-1 provides an introduction to the report interface. The use of the interface, including how to use the toolbar, is discussed in the following sections.

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C C C 1 of 1+					(3
Hadministrative Services Health & Human Services Department of Transportation Department of Corrections Department of Education	CIMS Invoice Billing Period: 11/1/2004 to 11/30/2004 Invoice No. 20 The Big Time Covernment Any State, USA AA - Administrative Services					
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	Tso Connect Minutes	7	55.31	0.02500000		3.87
	Tso Inputs		1,184	2.00000000		2.37
	Tso Outputs		1,297	1.00000000		1.31
	Tso Cpu Minutes (Initiator)		0.34	0.00000000		0.00
	Tso Cpu Minutes (All)		1.52	0.00000000		0.00
ê	Mainframe Tso charges				4 🥑 Internet	9.79 💌

Figure 3-1 • Report Interface

Using the Reporting Toolbar

This section provides an overview of the report toolbar options.

Printing a Report

To print a Crystal report, click the Print button. The Print button does not appear in the toolbar for Reporting Services reports. To print these reports, you must export the report to a PDF file from the toolbar.



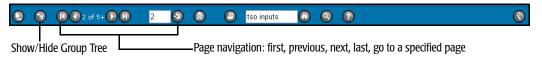
Saving a Report

To save a report, click the Export button. For more information about saving reports, see page 3-8.



Navigating a Report

To navigate through the pages of a report, click the page arrows or type a page number. To open and close the Group Tree that appears to the left of the report, click the Show/ Hide Group Tree button. For more information about the Group Tree, see page 3-4.



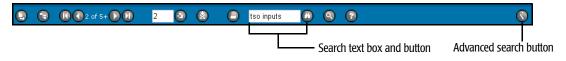
Zooming In or Out

To enlarge or shrink the size of information displayed in a report, click the Zoom button.



Searching Text in a Report

To search for text in the report, type the text that you want to search for and then click the Search button.



Stopping a Report from Loading (ActiveX Viewer Only)

If you are using the ActiveX viewer, you can click the Stop Loading button **I** to stop a report from loading. This button is available only when the report is loading.

Navigating Using the Group Tree

The Group Tree appears to the left of the report (see Figure 3-1 on page 3-2). This tree view enables you to navigate down to data.

```
Note • If the Group Tree does not appear, click the 🔟 toggle button.
```

Similar to the manner in which Windows Explorer displays folders and files, items in the report are listed in the **Preview** tab as an expandable hierarchy.

To view the item in the report, click the item. To expand or collapse an item, click the + or - beside the item.

Drilling Down in Reports

For certain items in a report, you can drill down to view information specific to that item or you can drill down to generate a separate report for the item. For example, in invoices, you can drill down on resource units to open a report that breaks out the units by identifier (see *Report Drill Down Example* on page 3-6).

If you are using the ActiveX viewer, the cursor becomes a magnifying glass \bigcirc when you point to an item that enables you to drill down to more detailed information within the report.

The icon becomes a hand h when you point to an item that enables you to drill down to another report.

If you are using the HTML viewer, the hand cursor appears for both types of drill down.

To drill down in a report:

- 1 Place the cursor on the appropriate item in the report. For example, a rate or charge.
- **2** Double-click the item. Detailed information about the item appears.
- **3** You can continue to drill down where allowed to view additional detailed information.

To drill down to another report:

- 1 Place the cursor on the appropriate item in the report. For example, an account code or resource units.
- 2 Click the item. Depending upon item that you click, the report either appears in the same browser window or in a separate window. If the report opens in a separate window, the parameters page for the report appears first.

Note • Drill down to another report is available only in invoice reports.

Closing the Drill Down View

To close the drill down view in a report:

If you are using the HTML viewer, click the **Back** button in the browser toolbar or Main

Report button 🙆 on the report toolbar (Crystal 9 only).

If you are using the ActiveX viewer, click the close button in the report toolbar or right-click the drill down view tab and then click **Close Current Drill Down View**.

To close a drill down report:

Click the close button in the browser window \boxtimes .

Report Drill Down Example

The drill down example shown in example Figure 3-2 shows a drill down on resource units.

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Figure 3-2 • Drill Down on Units

The parameters page for the drill down report opens as shown in example Figure 3-3 on page 3-7. This page enables you to break down and view the resource units by identifier or identifiers.

Note that the possible identifiers that you can select include **Usage Dates** and **Accounting Dates**. Usage dates are the actual start and end dates in the CIMS Server Resource Records. Accounting dates are derived from the usage end date as described in the *CIMS Server Administrator's Guide*.

In Figure 3-3 on page 3-7, the identifiers Usage Dates and Jobname are selected.

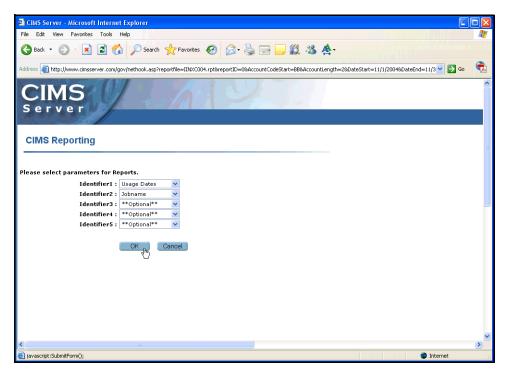


Figure 3-3 • Select Report Parameters

Figure 3-4 shows the resulting report. The units are broken down by usage dates and job names.

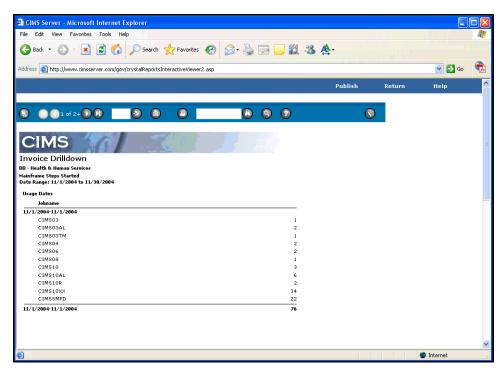


Figure 3-4 • Drill down by Identifier Report

Publishing Reports

See Publishing Reports on page 2-12.

Saving Reports

Note • Saving a report is distinct from the process of publishing a report. Saving a report saves the report to a local or network drive. When you save a report, users can access the report from this location. When you publish a report, users can access the report directly from the CIMS Server Web Reporting application. For more information about published reports, see Creating and Viewing Published Reports on page 2-12.

CIMS Server Web Reporting enables you to save reports that you generate so that you or other users can access the report again without regenerating the report. For example, if you run a daily report that others need to view, you can generate the report each day and save it in an accessible drive or folder.

Note • Reports that involve a wide range of dates or account codes can require excessive system time and resources to generate. Consider publishing or saving these reports for quicker access.

To save a report:

1 On the report page, click the Export button on the report toolbar



2 Follow the instructions in the dialog boxes that are presented.

If you want to share the saved report with others, choose a network drive when you save the report.

Copying Text From a Report

To copy an item in a report, right-click the item, and then click **Copy**. The system places the text in the Windows clipboard, enabling you to paste the text into other applications.

Working With Spreadsheets

This section describes how to use CIMS Server spreadsheets. When you run a spreadsheet, CIMS Server Web Reporting presents the report data in Microsoft Excel. You must have Excel installed on the client running the spreadsheet.

About the Spreadsheet Interface

Figure 3-5 provides an introduction to the spreadsheet interface. You can view and/or publish the spreadsheet from this interface or you can open the spreadsheet in Microsoft Excel and save, print, and/or edit the spreadsheet.

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1 Administrative Services	AA	Z035	Tso Cpu Minutes (Initiator)	3	Mainframe Tso		
2 Administrative Services	AA	Z036	Tso Cpu Minutes (All)	3	Mainframe Tso		
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5 Administrative Services	AA	Z008	3390 SIO's	5	Mainframe Input	/Output c	:ł
6 Administrative Services	AA	ZD16	Lines Printed - Local	6	Mainframe Print	er/Reade	r
7 Administrative Services	AA	ZZ07	Lines Printed - Remote	6	Mainframe Print	er/Reade	r
8 Administrative Services	AA	Z017	Pages Printed - Local	6	Mainframe Print	er/Reade	r
9 Administrative Services	AA	ZRMTPAGE	Pages Printed - Remote	6	Mainframe Print	er/Reade	r
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1 Administrative Services	AA	SMF6PGE	Psf Number Of Pages Printed	6	Mainframe Print	er/Reade	r
2 Administrative Services	AA		Psf Number Of Impressions	6	Mainframe Print	er/Reade	r
3 Administrative Services	AA		Psf Number Of Feet Of Paper	6	Mainframe Print	er/Reade	r
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5 Administrative Services	AA	ZDSK@@01	Disk Space Allocated (MB days)		Mainframe Stora		
6 Administrative Services	AA		DISK Space Used in Above(Non Vsam) (MB days)		Mainframe Stora		
7 Administrative Services	AA		Secondary Space Allocated(Non Vsam)(MB days)		Mainframe Stora		
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Figure 3-5 • Spreadsheet Interface

Publishing Spreadsheets

See Publishing Reports on page 2-12.

Opening a Spreadsheet in Excel

To open a spreadsheet in Excel:

Click Open with Excel.

The spreadsheet opens in Excel within the Web browser. You can then save, print, and/ or edit the spreadsheet using the Excel commands and toolbar.

If the Excel toolbar does not appear, click the Tools button 🔟 on the browser toolbar.

Working With Spreadsheets in Excel

To save a spreadsheet:

- 1 Click File > Save As on the browser menu bar.
- 2 Navigate to the folder that you want to save the file in, and then enter the file name and file type in the File name and Save as type select boxes.
- **3** Click **Save** to save the file to the location you selected.

Note • You need to click Save As each time you want to save the spreadsheet. Clicking the Save button on the Excel toolbar will not save the spreadsheet.

For more information about the benefits of saving spreadsheets rather than regenerating them, see *Saving Reports* on page 3-8.

To print a spreadsheet:

1 Click File > Print on the browser menu bar or the print button on the Excel toolbar.

To edit a spreadsheet:

Edit the spreadsheet as required and then follow the steps in *To save a spreadsheet:*.

To close a spreadsheet in Excel:

Click **Back** to return to the CIMS Server Web Reporting spreadsheet interface.

Note • Any changes you made to the spreadsheet while the report was open in Excel are not saved in CIMS Server Web Reporting.

- 4

Running and Working With CIMS Advanced Spreadsheets

This chapter describes how to run and use CIMS Advanced Spreadsheets. Your CIMS Server administrator determines whether CIMS Advanced Spreadsheets are available in CIMS Server Web Reporting. For more information, refer to the *CIMS Server Administrator's Guide*.

About CIMS Advanced Spreadsheets				
Running CIMS Advanced Spreadsheets	4-3			
Running a Drill Down or Static Advanced Spreadsheet				
Running a Crosstab Advanced Spreadsheet				
Working With CIMS Advanced Spreadsheets	4-8			
About the CIMS Advanced Spreadsheet Interface				
Advanced Spreadsheet Column Description				
Drilling Down in a Spreadsheet				
Working With CIMS Advances Spreadsheets in Excel				
Standard Advanced Spreadsheet Descriptions	4-14			
Complete Summary View				
Summary By Account Code				
Summary By Rate Code				
Summary By Rate Group				
Crosstab Spreadsheet				

About CIMS Advanced Spreadsheets

About CIMS Advanced Spreadsheets

The CIMS Advanced Spreadsheets feature enables you to build spreadsheets that provide more features than the standard spreadsheets described *Appendix A, Standard Reports*, including drill down and sorting capability.

The descriptions and examples used in this chapter reflect the advanced spreadsheets provided with CIMS Server. The spreadsheets used by your organization, including the names, parameters, look, and content of the spreadsheets, might differ for your organization.

There are three types of standard advanced spreadsheets. The data that appears in the spreadsheets is based on the parameters and columns that you select for the spreadsheet.

- **Static.** Provides a static view of data.
- Drill down. Provides the ability to drill down on data in a spreadsheet to view detailed data.
- Crosstab. Crosstab spreadsheets are synonymous with PivotTable reports in Excel. These spreadsheets provide the ability to change rows and columns to see different summaries of data.

Crosstab spreadsheets can also provide drill down capability depending on the fields that you select (see *Running a Crosstab Advanced Spreadsheet* on page 4-6).

For a description of each of the standard advanced spreadsheets provided with CIMS Server, see *Standard Advanced Spreadsheet Descriptions* on page 4-14.

Running CIMS Advanced Spreadsheets

This section provides the steps for running CIMS Advanced Spreadsheets. The steps differ if you are running a drill down or static spreadsheet or a crosstab spreadsheet.

Running a Drill Down or Static Advanced Spreadsheet

To run a drill down or static advanced spreadsheet:

1 Click the link for the spreadsheet that you want to run as shown in example Figure 4-1. Note that in this example the report group Advanced Spreadsheets has been created for CIMS Advanced Spreadsheets. This group is not included by default. For the steps required to create report groups and add reports to the groups, refer to the CIMS Server Administrator's Guide.

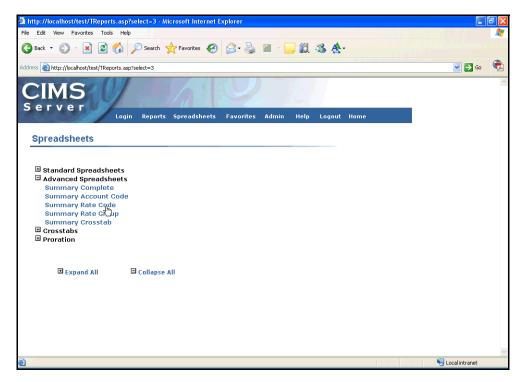


Figure 4-1 • Selecting a CIMS Advanced Spreadsheet

The parameters page for the selected spreadsheet opens.

2 In the **Please select parameters for Spreadsheets** area, enter the parameters for the data that you want to appear in the spreadsheet. The following are descriptions of the parameters for the standard advanced spreadsheets provided with CIMS Server. Your spreadsheets might use other parameters that are custom for your site.

The parameter values that you enter are stored in a cookie so that you do not have to re-enter the values each time you run a spreadsheet (unless you want to change the values).

Account Code Level	The account code level that you want to view in the spreadsheet. For example, the account code AABBBBCCC might contain three levels: the two-digit company code AA, the 6-digit division code AABBBB, and the 9-digit department code AABBBBCCC. The resource use and charge data will reflect the level that you select.
	For more information about account codes, see <i>About Account Codes</i> on page 2-7.
Starting and Ending Account Code	This parameter works in conjunction with the Account Code Level parameter and specifies the account codes for that level that appear in the report.
	If you want all account codes for that level to appear in the report, click Lowest Possible Account for the starting account code and Highest Possible Account for the ending account code.
	If you want specific account codes, click the appropriate start and end codes or click Custom and type the start and end codes.
Set the Date Range	The date range for the data that you want to appear in the spreadsheet.
From/To	The beginning and end dates for the data that you want to appear in the spreadsheet if you cannot select the date that you want from Set the Date Range .
	You can click the Calendar button 🕮 to choose the from and to date.

3 Each spreadsheet includes default columns for the data. However, you can select additional columns to include in the spreadsheet and specify the sort order and conditions for the data in these columns (if applicable).

In the **Please select spreadsheet column and sorting options** area, select the optional columns that you want to include in the spreadsheet. To select a column, click **Select**, **Sort Ascending**, **Sort Descending**, or **Condition** (see the following descriptions). Note that available options depend on the column.

If you do not want a column to appear in the spreadsheet, click Hide.

Fields that are designated as * *Drilldown Only* appear only in the spreadsheet that is opened when you drill down on data (see *Drilling Down in a Spreadsheet* on page 4-10).

Select	The column appears in the spreadsheet.
Hide	The field column does not appear in the spreadsheet.
Sort Ascending	The column appears in the spreadsheet and the column values are displayed in ascending order. Note that if preceding columns are set to ascending or descending, the sort option for the preceding columns takes precedence beginning from left to right.
Sort Descending	The column appears in the spreadsheet and the field values are displayed in descending order. Note that if preceding columns are set to ascending or descending, the sort option for the preceding columns takes precedence beginning from left to right.
Condition	The column appears in the spreadsheet and the field values must be greater than (>), less than (<), or equal (=) to the value that you specify. For example, if you want costs greater than \$100 to appear in a spreadsheet, click the greater than symbol (>) and type 100. Use a decimal as needed, e.g., type \$225.75 as 225.75.

For a description of the columns for the standard advanced spreadsheets provided with CIMS Server, see *Advanced Spreadsheet Column Description* on page 4-9.

4 Click **Submit** to generate the spreadsheet.

You can do many things with the information in the generated spreadsheet such as drill down on data (if you run a drill down spreadsheet), open the spreadsheet in Excel, and print and save the report. For more information, see *Working With CIMS Advanced Spreadsheets* on page 4-8.

Running a Crosstab Advanced Spreadsheet

The crosstab spreadsheets are synonymous with PivotTable reports in Excel. The parameters page for a crosstab spreadsheet includes a wizard that enables you to choose the fields that you want to appear in the spreadsheet.

To run a crosstab advanced spreadsheet, follow Step 1 through Step 2 in *Running a Drill Down or Static Advanced Spreadsheet* and then use the crosstab wizard as follows:

1 Click CLICK HERE TO SHOW THE WIZARD.

The CIMS Crosstab Wizard opens. The wizard presents the spreadsheet divided into three areas. On the right are the fields that you can place in each of these areas (one field per area).

2 Drag the field that you want into one of the three areas of the spreadsheet as shown in Figure 4-2. In this example, the resulting spreadsheet will show charges by rate code for each account code as shown in *Crosstab Spreadsheet Example* on page 4-28.

The following fields provide drill down capability when they are placed in the main content area: Money Value, Rate Index, Rate Group, Resource Units.

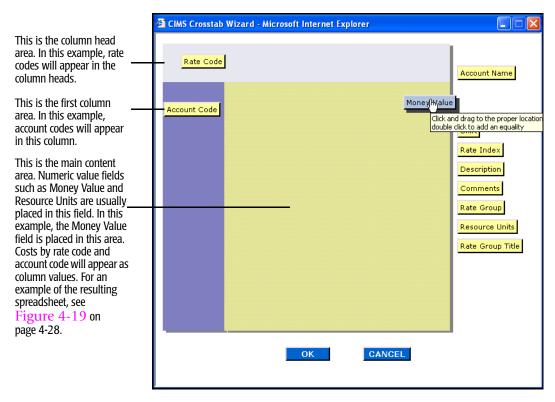


Figure 4-2 • CIMS Crosstab Wizard

- **3** Apply optional settings to the fields as follows:
 - **a** You can apply =, >, or < conditions to any of the fields. For example, if you want to view data for rate code Z001 only, double-click the Rate Code field and set the condition in the Condition Wizard to Rate Code = Z001 as shown in Figure 4-3.
 - **b** Numeric value fields such as Money Value are usually placed in the main content field. Values in the main content field are aggregated by sum. To change the aggregation type, double-click anywhere in the field to open the Function Wizard as shown in Figure 4-3.

You can change the aggregation type to any of the following:

- Sum (sum of all aggregated values is presented)
- Maximum (largest value that is included in the aggregation is presented)
- Minimum (smallest value that is included in the aggregation is presented)
- Count (count of all aggregated values is presented)
- Average (average of all aggregated values is presented)
- Standard Deviation (the standard deviation for all aggregated values is presented)
- Variance (the variance for all aggregated values is presented)

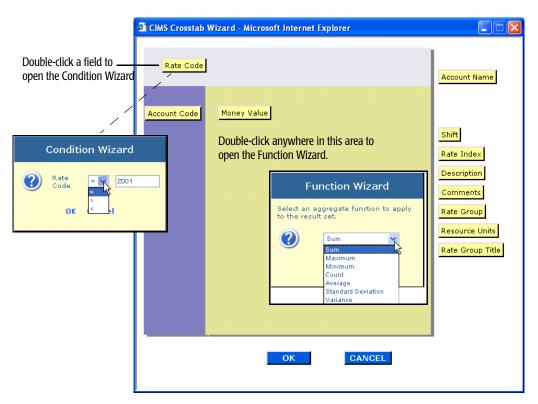


Figure 4-3 • Using the Condition and Function Wizards

4 Click OK to generate the spreadsheet.

Working With CIMS Advanced Spreadsheets

Working With CIMS Advanced Spreadsheets

This section describes how to use CIMS Advanced Spreadsheets. When you run a spreadsheet, CIMS Server Web Reporting presents the spreadsheet data in Microsoft Excel within the browser if you have Excel installed on the client running the spreadsheet. If you do not have Excel installed, the data appears in HTML.

About the CIMS Advanced Spreadsheet Interface

Figure 4-4 provides an introduction to the CIMS Advanced Spreadsheets interface. You can view and drill down on data in this interface. If you want to edit, save, or print data, click **Open with Excel**.

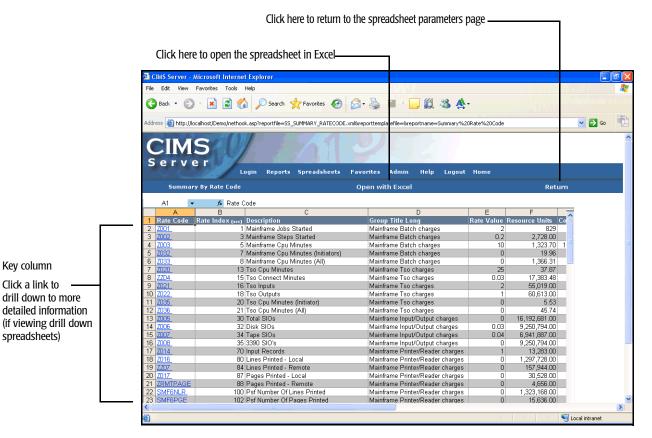


Figure 4-4 • CIMS Advanced Spreadsheet Interface

Advanced Spreadsheet Column Description

Table 4-1 provides a description of the columns that appear in the standard advanced spreadsheet fields that are provided with CIMS Server. The columns that appear depend on the default columns for the spreadsheet and any optional columns that were selected when the spreadsheet was generated (see Step 3 on page 4-5).

Your spreadsheets might contain other columns that are custom for your site.

Column	Description
Account Code	Contains account codes.
Rate Code	Contains rate codes. A rate code represents resource units consumed (for example, CPU time used, pages printed, e-mail message sent).
Description	Contains the description for the rate code.
Rate Index	Contains the index number for the rate code. The index number specifies the order in which the rate code appears in reports.
Rate Value	Contains the amount to be charged for the consumption of the resource represented by the rate code.
Group Title Long	Contains the rate group description for the rate code. A rate group description can be a maximum of 255 characters. The rate group description and title can be the same.
Group Title	Contains the rate group title for the rate code. A rate group title can be a maximum of 32 characters.
Resource Units	Contains the number of resource units consumed for the rate code.
Cost	Contains the cost for the resources consumed.
Account Name	Contains account names (if assigned).

Table 4-1
 Standard CIMS Advanced Spreadsheet Columns

Drilling Down in a Spreadsheet

Drill down spreadsheets enable you to drill down on the values in the key column (for example, the Rate Code column in the Summary By Rate Code spreadsheet).

To view detail data for a value, click the link as shown in example Figure 4-5. In this example, the link for the rate code Z005 opens a second spreadsheet with detailed information about the rate code as shown in Figure 4-6 on page 4-11.

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Z032	8 Mainframe Cpu Minutes (Initiators)	Mainframe Batch charges	0	1,366.31	
Z020	13 Tso Cpu Minutes	Mainframe Tso charges	25	37.87	-
ZZ04	15 Tso Connect Minutes	Mainframe Tso charges	0.03	17,383.48	
Z021	16 Tso Inputs	Mainframe Tso charges	2	55.019.00	
Z022	18 Tso Outputs	Mainframe Tso charges	1	60.613.00	
Z035	20 Tso Cpu Minutes (Initiator)	Mainframe Tso charges	Ó	5.53	
Z036	21 Tso Cpu Minutes (All)	Mainframe Tso charges	0	45.74	
	30 Total SIOs	Mainframe Input/Output charges	Ő	16,192,681.00	
Z005 Z1V2	32 Disk SIOs	Mainframe Input/Output charges	0.03	9,250,794.00	
Z007	34 Tape SIOs	Mainframe Input/Output charges	0.04	6,941,887.00	
Z008	35 3390 SIO's	Mainframe Input/Output charges	0	9,250,794.00	
Z014	70 Input Records	Mainframe Printer/Reader charges	1	13,283.00	
Z016	80 Lines Printed - Local	Mainframe Printer/Reader charges	0	1,297,728.00	
ZZ07	84 Lines Printed - Remote	Mainframe Printer/Reader charges	0	157,944.00	
Z017	87 Pages Printed - Local	Mainframe Printer/Reader charges	0	30,528.00	
	88 Pages Printed - Remote	Mainframe Printer/Reader charges	0	4,656.00	
ZRMTPAGE	100 Psf Number Of Lines Printed	Mainframe Printer/Reader charges	0	1,323,168.00	
ZRMTPAGE SMF6NLR		Mainframe Printer/Reader charges	0	15,636,00	
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Click a value in the key column to drill down

Figure 4-5 • Example Drill Down

Working With CIMS Advanced Spreadsheets

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Figure 4-6 • Example Drill Down

Working With CIMS Advanced Spreadsheets

Working With CIMS Advances Spreadsheets in Excel

If you want to print, edit, or save the spreadsheet, you should open the spreadsheet in the Excel.

To open a spreadsheet in Excel:

1 Click Open with Excel.

The spreadsheet opens in Excel in a separate Web browser window.

- 2 Click View > Toolbars > Standard.
- **3** You can then save, print, and/or edit the spreadsheet using the Excel commands and toolbar.

If you are opening Excel for the first time from CIMS Server Web Reporting:

If you have Excel installed, you might be prompted to download the spreadsheet file the first time that you open Excel from CIMS Server Web Reporting. This enables Windows to recognize the spreadsheet as an .xls file and to automatically open Excel in the future.

In the Windows File Download dialog box, do the following:

- 1 Click Open.
- 2 Click Select the program from a list, and then click OK.
- **3** In the Open With dialog box, click Microsoft Excel or click **Browse** to find Excel, and then click **OK**.

To edit a spreadsheet in Excel:

Edit the spreadsheet as required and then follow the steps in *To save a spreadsheet in Excel:* on page 4-13.

To print a spreadsheet in Excel:

1 Click **File → Print** or click the Print button is on the Excel toolbar.

To save a spreadsheet in Excel:

You can save advanced spreadsheets that you generate so that you or other users can access the spreadsheet again without regenerating the spreadsheet. For example, if you run a daily spreadsheet that others need to view, you can generate the spreadsheet each day and save it in an accessible drive or folder.

Note • Spreadsheets that involve a wide range of dates or account codes can require excessive system time and resources to generate. Consider saving these spreadsheets for quicker access.

- 1 Click File ► Save As.
- 2 Navigate to the folder that you want to save the file in, and then enter the file name and file type in the **File name** and **Save as type** select boxes.
- **3** Click **Save** to save the file to the location you selected.

To close a spreadsheet in Excel:

Click **File ▶ Close** or the Close **X** button.

Standard Advanced Spreadsheet Descriptions

Note • The standard advanced spreadsheets described in this section can be customized for your organization. For more information, see *Creating Custom Advanced Spreadsheets* on page 5-11.

This section describes the standard advanced spreadsheets that are provided with CIMS Server. Each spreadsheet description includes the following information:

XML File Name	The name of <i>XML</i> definition file for the spreadsheet.
Stored Procedure	The stored procedure used for the spreadsheet. A stored procedure is a set of SQL statements that can perform both queries and actions that allow the system to generate spreadsheets.
Key Column	The column by which all other columns in the spreadsheet are sorted. For example, the Rate Code column in the Summary By Rate Code spreadsheet or the Account Code column in the Summary By Account Code spreadsheet.
	If you are viewing a drill down spreadsheet, you can drill down on the values in the key column to view detailed data for that value.
Parameters	The parameters for the spreadsheet. For a description of these parameters, see Step 2 on page 4-4
Columns	The default and optional columns for the spreadsheet.

Complete Summary View

This spreadsheet shows a break down of resource units consumed and charges by rate code for each account code for the parameters selected. This spreadsheet does not include drill down.

XML file name: SS_SUMMARY_COMPLETE.xml

Stored Procedure: CIMSSP_Summary

Key Column: Account Code

Parameters:

- Starting and Ending Account Code
- Account Code Level
- Date Range

Spreadsheet Columns (one or more of the following must be selected):

- Account Code
- Rate Code (optional)
- Rate Index (optional)
- Description (optional)
- Group Title (optional)
- Rate Value (optional)
- Resource Units (optional)
- Cost (optional)

Complete Summary View Example

Figure 4-7 provides an example of the parameters and columns used to create a Complete Summary View spreadsheet.

Figure 4-8 on page 4-17 shows the resulting spreadsheet.

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Rate Code :	Sort Descending 💌	
Rate Index :	Select V	
Description :	Select V	
Group Title :	Hide V	
Rate Value :	Select	
Resource Units :	Select	
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Figure 4-7 • Example Setup for the Complete Summary View Spreadsheet

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ATM	ZZ38	508	DB2 Accumulated	Elapsed Minutes	0.15	4.27	0.6		
CCX	ZZ38	508	DB2 Accumulated	Elapsed Minutes	0.15	2.35	0.36		
COM	ZZ38	508	DB2 Accumulated	Elapsed Minutes	0.15	1,340.58	201.12		
DAC	ZZ38	508	DB2 Accumulated	Elapsed Minutes	0.15	4.37	0.6		
MTG	ZZ38		DB2 Accumulated		0.15	2,532.68	379.92		
ONE	ZZ38	508	DB2 Accumulated	Elapsed Minutes	0.15	1.032.24	154.8		
RTM	ZZ38	508	DB2 Accumulated	Elapsed Minutes	0.15	59.97	9		
SSI	ZZ38	508	DB2 Accumulated	Elapsed Minutes	0.15	0.39	0		
TEL	ZZ38	508	DB2 Accumulated	Elapsed Minutes	0.15	9.52	1.44		
WTX	ZZ38	508	DB2 Accumulated	Elapsed Minutes	0.15	0.51	0.12		
ATM	ZZ37		DB2 Accumulated		5	0.33	1.68		
CCX	ZZ37		DB2 Accumulated		5	0.61	3		
сом	ZZ37		DB2 Accumulated		5	104.33	521.64		
DAC	ZZ37	504	DB2 Accumulated	Cpu Minutes	5	0.3	1.44		
MTG	ZZ37		DB2 Accumulated		5	221.99	1.110.00		
ONE	ZZ37		DB2 Accumulated		5	86.61	433.08		
RTM	ZZ37		DB2 Accumulated		5	14.86	74.28		
SSI	7737		DB2 Accumulated		5	0.01	0.12		
TEL	ZZ37		DB2 Accumulated		5	1.51	7.56		
WTX	ZZ37		DB2 Accumulated		5	0.31	1.56		
ATM	7736		DB2 I/O Activity (G		0	312 144 00			

Figure 4-8 • Example Complete Summary View Spreadsheet

Summary By Account Code

This spreadsheet shows a summary of resource units consumed and charges by account code for the parameters selected. You can drill down on the account code to view a break down of the resource usage and charges by rate code.

XML file name: SS_SUMMARY_ACCOUNTCODE.xml

Stored Procedure: CIMSSP_Summary

Key Column: Account Code

Parameters:

- Starting and Ending Account Code
- Account Code Level
- Date Range

Top-level Spreadsheet Columns:

- Account Code
- Resource Units
- Cost
- Account Name

Drill Down Spreadsheet Columns:

- Account Code
- Rate Code
- Rate Index
- Description (optional)
- Comments
- Rate Group (optional)
- Group Title Long (optional)
- Rate Value (optional)
- Resource Units
- Cost
- Account Name

Summary By Account Code Example

Figure 4-9 provides an example of the parameters and columns used to create a Summary By Account Code spreadsheet.

Figure 4-10 shows the resulting spreadsheet.

Figure 4-11 on page 4-20 shows an example drill down.

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Figure 4-9 • Example Setup for the Summary By Account Code Spreadsheet

Standard Advanced Spreadsheet Descriptions

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Figure 4-10 • Example Summary By Account Code Spreadsheet

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ATM	LLA110	710 Unix Inter			12	0.00	104,34		
ATM	LLB104		kground User CPU (minutes)		12	0.04			
ATM	LLA107		ractive Total CPU (minutes)		12	0.04			
ATM	WPRTPRPC		lows Print Page Count		32	0.03			
ATM	LLA109		ractive Image Count		12	0.03			
ATM	LLA106		ractive System CPU (minutes)		12	0.02			
ATM	1PRT	212 One Part			8	0.02	3,54		
ATM	SQLCPU		lows SQL Server CPU (seconds	3)	26	0.02	1		
ATM	STD	228 Standard		/	8	0.02	2,10		
ATM	ZCS3	404 CICS Trai			9	0.02			
	ZCS4	406 CICS Inpu			9	0.02			
ATM									

Figure 4-11 • Example Summary By Account Code Drill Down

Summary By Rate Code

This spreadsheet shows a summary of resource units consumed and charges by rate code for the parameters selected. You can drill down on the rate code to view a break down of the resource usage and charges for the rate code by account code.

XML file name: SS_SUMMARY_RATECODE.xml

Stored Procedure: CIMSSP_Summary

Key Column: Rate Code

Parameters:

- Starting and Ending Account Code
- Account Code Level
- Date Range

Top-level Spreadsheet Columns:

- Rate Code
- Rate Index
- Rate Description (optional)
- Group Title Long (optional)
- Rate Value (optional)
- Resource Units
- Cost

Drill Down Spreadsheet Columns:

- Account Code
- Rate Code
- Shift
- Rate Index
- Description (optional)
- Comments
- Group Title Long (optional)
- Rate Value (optional)
- Resource Units
- Cost

Summary By Rate Code Example

Figure 4-12 provides an example of the parameters and columns used to create a Summary By Rate Code spreadsheet.

Figure 4-13 on page 4-23 shows the resulting spreadsheet.

Figure 4-14 on page 4-23 shows an example drill down.

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Figure 4-12 • Example Setup for the Summary By Rate Code Spreadsheet

Standard Advanced Spreadsheet Descriptions

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Z001	3 Mainframe Steps Started		2.728.00	545.6					
Z002	5 Mainframe Cpu Minutes		1,323.70	13,237.04			E		
Z032	7 Mainframe Opu Minutes		19.96	0					
Z033	8 Mainframe Cpu Minutes		1,366.31	0					
Z020	13 Tso Cpu Minutes	25	37.87	946.69					
ZZ04	15 Tso Connect Minutes	0.03	17,383.48	434.58					
Z021	16 Tso Inputs	2	55,019.00	110.05					
<u>ZOŚ.</u>)	18 Tso Outputs	1	60,613.00	60.65					
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<u>Z036</u>	21 Tso Cpu Minutes (All)	0	45.74	0			_		
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<u>Z006</u>	32 Disk SIOs	0.03	9,250,794.00	231.26			_		
<u>Z007</u>	34 Tape SIOs	0.04	6,941,887.00	242.97					
<u>Z008</u> Z014	35 3390 SIO's 70 Input Records	0	9,250,794.00 13,283.00	0 13.31					
Z014 Z016	80 Lines Printed - Local	0	1.297.728.00	13.31					
ZZ07	84 Lines Printed - Eocar 84 Lines Printed - Remote	0	157,944.00	0.36					
Z017	87 Pages Printed - Local	0	30,528.00	0.00					
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Click a value in the key column to drill down

Figure 4-13 • Example Summary By Rate Code Spreadsheet

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Figure 4-14 • Example Summary By Rate Code Drill Down

Summary By Rate Group

This spreadsheet shows a summary of resource units consumed and charges by rate group for the parameters selected. You can drill down on the rate group to view a break down of the resource usage and charges for the rate group by account code and rate code.

XML file name: SS_SUMMARY_RATEGROUP.xml

Stored Procedure: CIMSSP_Summary

Key Column: Rate Group

Parameters:

- Starting and Ending Account Code
- Account Code Level
- Date Range

Top-level Spreadsheet Columns:

- Group Title Long
- Resource Units
- Cost

Drill Down Spreadsheet Columns:

- Account Code
- Rate Code
- Rate Index
- Description (optional)
- Comments
- Group Title Long (optional)
- Rate Value (optional)
- Resource Units
- Cost

Summary By Rate Group Example

Figure 4-15 provides an example of the parameters and columns used to create a Summary By Rate Group spreadsheet.

Figure 4-16 on page 4-26 shows the resulting spreadsheet.

Figure 4-17 on page 4-26 shows an example drill down.

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Figure 4-15 • Example Setup for the Summary By Rate Group Spreadsheet

Standard Advanced Spreadsheet Descriptions

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Mainframe CICS charges	162,164,30	676.32									
Mainframe DB2 charges	344,175,286.09	5,925.00									
Mainframe Input/Out_ut charges	41,636,156.00	474.23									
Mainframe Print charges	50,784.00	0.6									
Mainframe Printer/Reader charges	2,880,287.00	40.19									
Mainframe Storage charges	2,652,536.78	20,863.84									
Mainframe Tso charges	133,104.61	1,551.97									
MS Exchange Mailbox	492	98.4									
MS Exchange Sent and Received	1,344,627,506.00	1,277.46									
2 <u>MS IIS</u>	3,454,154,454.00	3,379.48									
B MS Windows Print	64,143.00	70.52									
4 MS Windows Processes	1,110,609,404.27	12,890.31								3	
MS Windows SQL Server	54,258,177.40	315.37									
MS Windows storage charges	1,734,763.12	3,468.32									
7 Shared Services	843	84.3									
B Unix background job type charges	9,196,076.71	1,570.62									
9 Unix DB2 charges	155,688.00	1,255.28									
0 Unix filesystem	4,882,157,744.00	2,985.41									
1 Unix interactive job type charges	82,033,353.65	7,817.00									
2 Unix Oracle charges 3 Run Total	33,965,135.91 11,364,654,366,82										
S KUILLOTAL	11,364,654,366.82	240,772.10									>
									671		-
CIMS Server is ready.									•	Local intranet	

Click a value in the key column to drill down

Figure 4-16 • Example Summary By Rate Group Spreadsheet

CIW	IS Server - Mi	crosoft Inte	rnet Explorer								Þ
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		M. C. Mark	Login Repor	ts Spreadsheets Favorite	s Admin	Help Lo	gout Hor	ne			
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	A	В	C	D	E	F		G	H 🔽	1	
			Rate Index De			Group Title			Resource Unit		
A		ZZ32		2 Transaction Cpu Minutes		Mainframe DB		5	0.3		
	TM	ZZ33		2 Transactions (Records)		Mainframe DB		0.02	16		
	TM	ZZ34		2 Transaction Elapsed Minutes		Mainframe DB		0.02	4.6		
	TM	ZZ35		2 Entry/Exit Events		Mainframe DB		0.01	46,992.0		
	TM	ZZ36		2 I/O Activity (Get Pages)		Mainframe DE		0	312,144.0		
	TM	ZZ37		2 Accumulated Cpu Minutes		Mainframe DE		5	0.3		
	TM	ZZ38 ZZ32		2 Accumulated Elapsed Minutes		Mainframe DE		0.15	4.2		
	CX	7733		2 Transaction Cpu Minutes 2 Transactions (Records)		Mainframe DB Mainframe DB		0.02	0.7		
C		ZZ33 ZZ34		2 Transactions (Records) 2 Transaction Elapsed Minutes		Mainframe DE		0.02	6.1		
C		7735		2 Entry/Exit Events		Mainframe DE		0.02	438.240.0		
C		7736		2 I/O Activity (Get Pages)		Mainframe DE		0.01	135.816.0		
C		ZZ30		2 Accumulated Cpu Minutes		Mainframe DE		5	0.6		
C		7738		2 Accumulated Clapsed Minutes		Mainframe DE		0.15	2.3		
	ОМ	ZZ30		2 Transaction Cpu Minutes		Mainframe DE		5	105.2		
	OM	ZZ33		2 Transactions (Records)		Mainframe DE		0.02	1.320.0		
	ом Ом	ZZ34		2 Transaction Elapsed Minutes		Mainframe DB		0.02	3,356.9		
	OM	ZZ35		2 Entry/Exit Events		Mainframe DB		0.01	2,570,904.0		
	OM	ZZ36		2 I/O Activity (Get Pages)		Mainframe DB		0			
	ОМ	ZZ37		2 Accumulated Cpu Minutes		Mainframe DB		5	104.3		
C	ОМ	ZZ38		2 Accumulated Elapsed Minutes		Mainframe DB		0.15	1,340.5		
n	AC	ZZ32	502 DB	2 Transaction Cpu Minutes		Mainframe DB		5	0.		

Figure 4-17 • Example Summary By Rate Group Drill Down

Crosstab Spreadsheet

The data that appears in this spreadsheet is user-defined. The CIMS Crosstab Wizard is used to generate this spreadsheet. This wizard enables users to dynamically change rows and columns to see different summaries of data. For more information, see *Running a Crosstab Advanced Spreadsheet* on page 4-6.

XML file name: SS_CRTAB.xml

Stored Procedure: CIMSSP_Summary

Key Column: User-defined

Parameters:

- Starting and Ending Account Code
- Account Code Level
- Date Range

Possible Spreadsheet Fields

- Rate Code
- Account Name
- Money Value
- Account Code
- Shift
- Rate Index
- Description
- Comments
- Rate Group
- Resource Units
- Rate Group Title

Crosstab Spreadsheet Example

Figure 4-18 shows the fields selected for the spreadsheet in the CIMS Crosstab Wizard.

Figure 4-19 and Figure 4-20 on page 4-29 show the resulting spreadsheet and an example drill down.

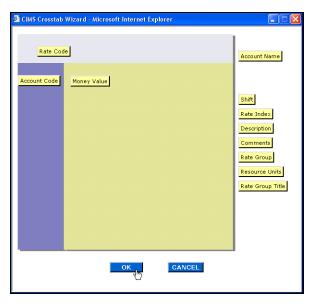


Figure 4-18 • Example Crosstab Spreadsheet Wizard

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				-	~			_								e-184.
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CI Ser	MS ve		Ø		A		Y.		2							
			Login	Repor	ts Sprea	dsheets	Favorites	Admin	Help	Logou	t Home					
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A1	•	fx														
A	В	С	D	E	F	G	Н			J	К	L	М	N	~	
			DISKSIZE				EXEMRCV	EXEMSNT			CSBytes	FIIS-2	FIIS-3	FIIS-4 FI		
2 ATM 3 CCX	<u>0</u>	<u>7.9</u> 3 433.5	<u>0</u>		<u>153.86</u>	<u>1.98</u>	0		0	4.8			0			
3 CCX 4 COM	0	1749.08	0		25.96 25.14	0.22	0		0	<u>7.2</u> 9.6		0				
5 DAC	Ō	21.34	Ō	× 1	48.47	4.17	0		ō	2.0						
6 DEP	Ō	247.17	Ō		4.83	3	Ō		ō	14.4	0.82	0.08	0	0		
7 MTG	Q	256.13	Q		3.65	0.04	Q		Q	14.4						
8 ONE	0	<u>76.83</u>	<u>0</u>		0.05		0			<u>9.6</u>						
9 RTM	0	<u>76.7</u>	0		<u>356.26</u>	33.29	0		0	2.4			0			
	0	49.79	0		247.79	2.73	0		Q	9.6						
11 TEL 12 WTX	0	442.07 107.9	0		358.65	7.09	0		0	<u>16.8</u> 9.6		0	0			
3	<u>U</u>	107.5	U	3.2	330.03	7.05	<u> </u>		<u>u</u>	9.0		U	<u>u</u>			
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Figure 4-19 • Example Summary Crosstab Spreadsheet

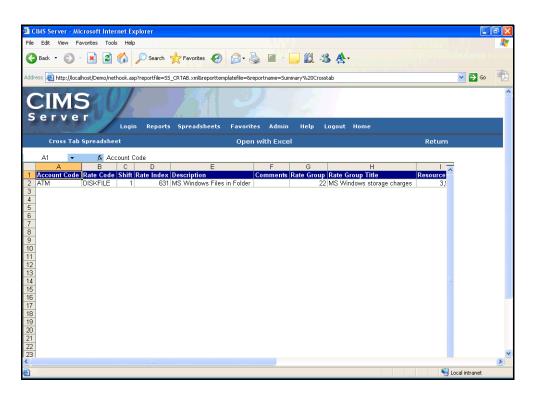


Figure 4-20 • Example Summary Crosstab Drill Down

Running and Working With CIMS Advanced Spreadsheets

Standard Advanced Spreadsheet Descriptions

5

Administering CIMS Server Web Reporting

This chapter describes user-specific and system-wide configuration settings for CIMS Server Web Reporting. It also provides information about other administrative tasks such as creating custom report parameters and customizing CIMS Advanced Spreadsheets.

Note • For simplicity, the procedures in this section reflect commands for reports. However, these procedures are also applicable to spreadsheets. For example, if you are instructed to click Favorites > Add > Reports, the corresponding sequence for spreadsheets is Favorites > Add > Spreadsheets.

Configuring User-Specific Settings	5-2
Working With Favorite Reports	5-2
Showing or Hiding Folder Paths for Published Reports	5-5
Selecting an Account Code Structure for Reports	5-5
Choosing a Crystal Report Viewer	5-6
Changing Your E-mail Address	5-7
Resetting the Browser	5-7
Configuring System-Wide Settings	5-8
Creating Custom Advanced Spreadsheets	5-11
About the XML Spreadsheet Definition File Structure	5-12

Configuring User-Specific Settings

The settings described in this section can be different for each CIMS Web user. These settings are not applied system wide.

Working With Favorite Reports

You can designate reports as favorite reports. This feature enables you to easily access favorite reports from the Favorites page (see Figure 5-2 on page 5-4) or from shortcuts in the left frame of the home page (see Figure 5-1 on page 5-3).

Note • Although you can designate multiple reports as favorites, only the first five reports that you add as favorites will appear on the home page.

To add a report as a favorite:

- 1 Click Favorites ▶ Add ▶ Reports.
- 2 On the Maintain Favorites–Add Reports page, expand the report group that contains the report that you want, and then click the report.

The report is designated as a favorite as shown in example Figure 5-1 and appears on the Favorites page (see Figure 5-2 on page 5-4).

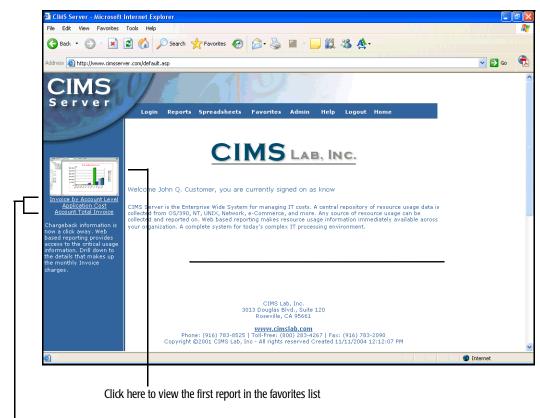
М	aintain Favorites - Add Reports
Act = + + +	count Total Invoice has been added Invoices FAV Invoice by Account Level FAV Application Cost FAV Account Total Invoice Alternate Invoice Invoice with Budget Invoice with Shifts Run Total Invoice with Shifts Run Total Invoice Run Total Invoice Run Total Percent Run Total Percent Run Total Rate Group Percent Zero Cost Center Invoice Invoice by Account Level V2 Account Reports Top Usage Reports Yariance Reports Trend
±	Resource Detail Other

Note • When you add a report as a favorite, any published reports created from that report are also automatically included as favorites if the default file name was used when the published reports were created (see *Publishing Reports* on page 2-12). If a file name other than the default was used for a published report, the system will not add the report as a favorite and you cannot add the report manually.

To access a favorite report from a shortcut:

Click the report link in the left frame of the home page (see Figure 5-1). If the report has a correlating published report for the current period, the most current published report opens.

If the favorite report *does not* have a correlating published report for the current period, the parameters page for the report opens.



List of favorite reports

Figure 5-1 • Favorite Report Links

To access a favorite report from the Favorites page:

1 Click Favorites ▶ Reports.

The Favorites page opens displaying a hierarchy of reports that you have saved as favorites.

- 2 Navigate to the appropriate report (see Figure 5-2) and expand it.
- **3** Do one of the following:
 - Click **Run Report** to run the report.
 - Click a published report (if available) to view the report. You can hide or display the folder path that appears for the published report. See *Showing or Hiding Folder Paths for Published Reports* on page 5-5.

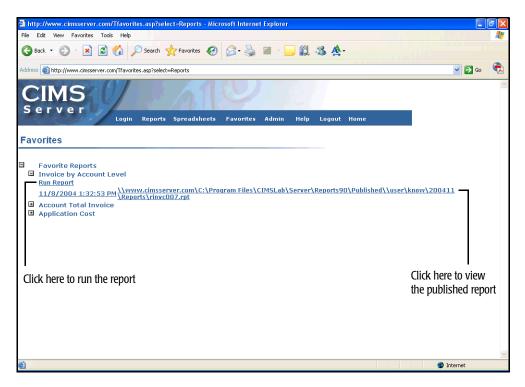


Figure 5-2 • Navigating to a Favorite Report

To remove a favorite report:

- 1 Click Favorites ▶ Delete.
- **2** On the Maintain Favorites–Remove Reports page, click the report that you want to remove.

The report is removed from Favorites list.

Note • Removing a favorite report simply removes the report from your list of favorites. *It does not delete the report from the system.*

Showing or Hiding Folder Paths for Published Reports

By default, published reports that appear on the Published Reports and Favorites pages include the full path to the folder that contains the report. You can choose to show or hide these paths.

To hide or display folder paths of reports:

- 1 Click Admin ▶ User Options.
- 2 On the Set User Options page, do the following:
 - To show the full folder paths on the Published Reports and/or Favorites pages, click **Y** in the appropriate box.
 - To hide folder paths, click N in the appropriate box.
- 3 Click Update.

The system shows or hides the directory paths as you requested.

Selecting an Account Code Structure for Reports

If your CIMS Server administrator has assigned multiple account code structures to your user group, you can choose the account structure that you want to appear in reports.

To select the account code structure:

- 1 Click Admin > User Options.
- 2 On the Set User Options page, click the account code structure that you want to use in the **Account Code Structure** select box.

Choosing a Crystal Report Viewer

In most cases, your CIMS Server administrator will have set the appropriate Crystal Report viewer for your browser. (For more information, refer to the *CIMS Server Administrator's Guide*.) However, you can change the viewer as needed from CIMS Server Web Reporting. The viewer that you select should be based on the specifics of your browser and computer. For the advantages and disadvantages of each viewer, see page 5-8.

Note • If you are using SQL Server Reporting Services for reporting, use the Default viewer.

To choose a Crystal Report viewer:

Note • The following steps are applicable to selecting a viewer for an individual CIMS Web user only. To set the viewer for all users, see *Configuring System-Wide Settings* on page 5-8. CIMS Server Web Reporting uses the viewer set for the individual user if it differs from viewer set for all users.

- 1 Click Admin ▶ User Options.
- **2** On the Set User Options page, click one of the following in the **Crystal Web Viewer** select box:
 - **Default**. This option uses the viewer set on the Edit Configuration page (see page 5-8).
 - ActiveX. This option works only in Internet Explorer.
 - Java using Browser JVM. This option works in Netscape Navigator or Internet Explorer. This viewer requires the Java Virtual Machine. Because this viewer might be more difficult to set up, CIMS Lab recommends that you use the HTML or ActiveX viewer.
 - HTML. This option is appropriate for users with lower powered computers with minimal memory (64MB or less). It offers a smaller feature set.
- 3 Click **Update** to change the viewer.

Changing Your E-mail Address

CIMS Server includes an automatic report distribution feature. If your CIMS Server administrator has enabled this feature for your user ID or user group, you will receive published reports via e-mail. Your CIMS Server administrator determines the reports that you will receive.

If needed, you can change the e-mail address at which you receive reports. To change your e-mail address:

- 1 Click Admin ▶ User Options.
- 2 In the Email Address box, type your e-mail address, and then click Update.

For more information about publishing and distributing reports in batch, refer to the *CIMS Server Administrator's Guide*.

Resetting the Browser

Important! • You should reset the browser only after consulting CIMS Lab. This feature is for debugging purposes only.

You can reset your browser to the default values by clicking **Admin** > **User Options** and then clicking **OK** under **Browser Reset**.

Configuring System-Wide Settings

You must be a CIMS Web administrator to edit the configuration settings described in the section. If you are not an administrator, you can view these settings in a read-only capacity.

These configuration settings are saved to the CIMS Server database and are applied to *all* CIMS Web users.

Note • Many of these settings can also be configured using CIMS Server Administrator.

To edit the configuration settings:

- 1 Click Admin ▶ Configuration.
- 2 Edit the settings on the Edit Configuration page as follows:
 - CIMS Data Source ID and ODBC DSN (not editable). These fields identify the database that CIMS Server Web Reporting is pointing to. The value for the CIMS Data Source ID setting is always Default. The default CIMS Data Source is defined in CIMS Server Administrator. The default CIMS Data Source points the ODBC Data Source shown in the ODBC DSN box, which points to the database. For more information about setting up CIMS Data Sources and ODBC Data Sources, refer to the CIMS Server Administrator's Guide.
 - **ODBC DSN (not editable).** The name of the ODBC-compliant Data Source that the default CIMS Data Source is pointing to.
 - Localization ID (LCID) (not editable). The LCID assigned to the user's regional setting in Windows.
 - Organization Name and Address Fields. Address information for your organization (maximum of 255 characters for each box). This information appears in the standard invoices that ship with CIMS Server.
 - Path to Standard/Custom/Published Reports Folder. The paths to the folders that contains the standard, custom, and published reports used for Web reporting (maximum of 255 characters for each box).
 - **Invoice Number**. This invoice number is used only if the **Invoice Number** report parameter is not available (see page 2-5).
 - Session Timeout Minutes. The number of minutes of inactivity that are allowed before users are automatically logged out of CIMS Server Web Reporting. The minimum is 1 minute and the maximum is 9999 minutes. The default is 60 minutes.

Note • If you change this setting, the change will not take effect during the same session. You need to log out and the log on again.

• **Crystal Web Viewer.** This setting determines the particular Crystal Viewer used to view reports. You can choose one of the following:

Note • If you are using SQL Server Reporting Services for reporting, leave this box set to Default.

- **Default.** If you are using Crystal Reports 9 or 10, the default is the HTML viewer. If you are using Crystal Reports 8.5, the default is the ActiveX viewer.
- ActiveX. This option works only in Internet Explorer. This viewer has the following advantages and disadvantages:

Advantage: This viewer provides more features than the HTML viewer provides.

Disadvantage: This viewer requires that the Crystal Smart Viewer for ActiveX be installed on the user's computer (for more information, refer to the *CIMS Server Administrator's Guide*). The user might not have the administrative privileges required to install and run the viewer.

- Java using Browser JVM. This option works in Netscape Navigator or Internet Explorer. This viewer requires the Java Virtual Machine. Because this viewer might be more difficult to set up, CIMS Lab recommends that you use the HTML or ActiveX viewer.
- HTML. This option works in Internet Explorer or Netscape Navigator. This viewer has the following advantages and disadvantages:

Advantage: This viewer works with any browser and does not require any additional files or set up.

Disadvantage: This viewer provides fewer features than the ActiveX viewer provides.

- Display Account Code Selection to Level. This setting determines the level of account codes that appear in the Starting Account Code and Ending Account Code lists on a report parameters page. For example, if you type 1, only the top level account codes appear. However, if you type 3, the first, second, and third level account codes appear.
- **Current Database Version (not editable)**. The version of the CIMS database currently used by CIMS Server.
- Last Reporting Date. The last reporting date that CIMS Web end users can view. For example, if the date is December 31 2010, end users cannot view reports for dates after December 2010. The default is December 31 2199.

Note • CIMS Web administrators can view reports for any date.

3 When you are finished, click **Update Configuration** to change the settings.

Note • Update Configuration also refreshes additional configuration options that are set in CIMS Server Administrator and stored in the Web server cache. For more information about the configuration options that you can set for CIMS Server Web Reporting, refer to the *CIMS Server Administrator's Guide*.

About Updating Identifiers

A key feature of viewing invoices in CIMS Server Web Reporting is the ability to drill down on the units consumed for a resource by identifier. This feature uses the CIMSRateIdentifiers table, which contains the rate codes that are processed from the input resource file(s) and correlates them to their corresponding identifier names in the CIMSIdent table.

If the identifiers in and/or a rate code or codes in the input file have changed, the CIMSRateIdentifiers table will retain unused data in addition to the current data. Although this does not cause processing problems, the table can accumulate a large amount of data. You can click **Update Identifiers Cache** to update the table so that it contains only the current data; however, in most cases this step will already be completed by your CIMS Server administrator.

For more information about maintaining identifiers, refer to the CIMS Server Administrator's Guide.

Creating Custom Advanced Spreadsheets

Note • The information in this section is pertinent only if you want create custom CIMS Advanced Spreadsheets. For more information about CIMS Advanced Spreadsheets, refer to *Chapter 4, Running and Working With CIMS Advanced Spreadsheets.*

This section assumes that you have knowledge of XML and SQL concepts and conventions. If you are using an Oracle or DB2 database, contact CIMS Lab for information about using CIMS Advanced Spreadsheets.

Each advanced spreadsheet is defined by an XML file. CIMS Lab provides XML definition files for the standard spreadsheets described in *Standard Advanced Spreadsheet Descriptions* on page 4-14. If CIMS Server is installed in the default location, these files are in C:\Program Files\CIMSLab\Server\AdvSpreadsheets\Standard. To create custom advanced spreadsheets, you can modify the standard XML definition files or you can create new files.

Note • To use an advanced spreadsheet, you must move the spreadsheet XML file from the AdvSpreadsheets folder to the folder that contains your reports. For more more information, refer to the *CIMS Server Administrator's Guide*.

The section *About the XML Spreadsheet Definition File Structure* on page 5-12 defines the required structure for the advanced spreadsheet definition files. Whether you are modifying an existing file or creating a new file, you need to follow this structure.

Creating Custom Advanced Spreadsheets

About the XML Spreadsheet Definition File Structure

The XML definition file for each spreadsheet is composed of three parts:

- The name and description of the spreadsheet.
- The SQL stored procedure, view, or table used to retrieve data.
- The fields that appear in the spreadsheet.

The structure of each of these parts is shown in the following XML definition file for the crosstab spreadsheet, SS_CRTAB.xml.

Sample XML Definition

```
<?xml version="1.0" encoding="utf-8"?>
               <SpreadSheet name="Crosstab Spreadsheet">
The spreadsheet
               <!--Generic description for the report, retained for future UI implementation-->
name and
               <Description>Account Crosstab Spreadsheet</Description>
description are
defined here. For
more information,
see page 5-13.
                   <!--SQL Types...->
                   <SQL type="storedprocedure" name="CIMSSp_Summary" crosstab="1"
The SQL stored
                   crosstabdrilldown="1">
procedure, view, or
                       <!--Param types...->
table is defined here.
For more
information, see
                       <Param name="AccountCodeStart" type="custom"/>
page 5-14.
                       <Param name="AccountCodeEnd" type="custom"/>
                       <Param name="InvoiceLevel" type="custom" SQLIgnore="1"/>
                       <Param name="AccountStart" type="custom"/>
                       <Param name="AccountLength" type="custom"/>
                       <Param name="DateRange" type="custom" SQLIgnore="1"/>
                       <Param name="DateStart" type="custom"/>
                       <Param name="DateEnd" type="custom"/>
                       <Param name="UserID" type="system"/>
                       <Param name="SubtotalLength" type="constant">2</Param>
                   </SQL>
                   <Fields>
The spreadsheet
                       <!--These are the fields that will be displayed in the report...->
fields are defined
                       <Field name="RateCode" xaxislevel="1">Rate Code</Field>
here. For more
information, see
                       <Field name="AccountName" yaxislevel="1">Account Name</Field>
page 5-16.
                       <Field name="MoneyValue" xaxislevel="2" >Money Value</Field>
                       <Field name="AccountCode" drilldown="1" secondaryDrill="1" criteria="1">
                        Account Code</Field>
                       <Field name="Shift" drilldown="1">Shift</Field>
                       <Field name="RateIndex" function="max">Rate Index</Field>
                       <Field name="Description" selectable="1">Description</Field>
                       <Field name="Comments" drilldown="1">Comments</Field>
                       <Field name="RateGroup" selectable="1" sort="1">Rate Group</Field>
                       <Field name="ResourceUnits" sum="1" >Resource Units</Field>
                       <Field name="GroupTitleLong" >Rate Group Title</Field>
                   </Fields>
```

</spreadSheet>

Defining the Name and Description of the Spreadsheet

The spreadsheet name is an attribute of the root SpreadSheet element and is defined as follows:

```
<SpreadSheet name="Name{string}">
```

Note • The spreadsheet name that is defined here is the name that appears on the Spreadsheets page. For example, if you define the spreadsheet name as <SpreadSheet name="Invoice Spreadsheet">, the name Invoice Spreadsheet appears on the Spreadsheet page.

The spreadsheet description is defined in the Description element. This element cannot have attributes and is defined as follows.

<Description>Description{string}</Description>

The Description element is usually the first child of the SpreadSheet element.

Defining the SQL Stored Procedure, View, or Table

The SQL stored procedure, view, or table that is used to retrieve the data for the spreadsheet is defined as an attribute of the SQL element. The SQL element is a child of the root SpreadSheet element and is defined as follows:

<SQL type="storedprocedure | view | table" name="SQL Object Name{string}" crosstab="1" crosstabdrilldown="1">

SQL Element Attributes

The attributes of the SQL element are defined as follows.

Attribute	Description
type="storedprocedure view table"	The type of SQL object that is used to retrieve data. If the type is a view or table, then a select statement is built and executed on the specified view or table name.
	If the type is a stored procedure, then the stored procedure is executed with parameters passed in (see <i>Param Element Attributes</i> on page 5-15).
name="SQL Object Name{string}"	The name of the SQL object in the database.
crosstab="1"	If this attribute is present, the spreadsheet is a crosstab spreadsheet. You must define four or more fields for a crosstab spreadsheet (see <i>Defining the Fields That Appear in the Spreadsheet</i> on page 5-16). Otherwise, the CIMS Crosstab Wizard does not appear on the parameters page for the spreadsheet.
crosstabdrilldown="1"	If this attribute is present, the crosstab spreadsheet includes drill down on the values in the main content area of the spreadsheet (see <i>Running a Crosstab Advanced Spreadsheet</i> on page 4-6).
	If the crosstab attribute is not present, this attribute is ignored.

Table 5-1 • SQL Element Attributes

Param Element Attributes

If the type attribute is a view or table, then input parameters are not used. A simple select statement is generated based on the specified table or view name.

If the type attribute is a stored procedure, then Param elements are used to define the input parameters for the store procedure. The Param elements are child elements of the SQL element. Param elements are defined as follows:

<Param name="Name{string}" type="custom | system | constant" SQLIgnore="1"/>

The attributes of the Param element are defined as follows.

Attribute	Description						
name="Name{string}"		The parameter names must match the names of the parameter defined in the stored procedure.					
type="custom system	The type attr	bute has three allowable string values:					
constant"	■ custom	This type specifies that an external Web control should be loaded to provide user input for this parameter. For example, to select the start and end dates for a spreadsheet.					
	∎ system	This type specifies that the value for the parameter should be pulled from system internal data such as a user or group ID.					
	■ constant	This type may be used if you want to pass a constant as a parameter. In this case, the text entered for the Param element will be passed to the stored procedure.					
SQLIgnore="1"	If this attribute is present, the parameter is not passed to the stored procedure. This attribute enables you to load custom controls.						

Table 5-2 • Param Element Attributes

Defining the Fields That Appear in the Spreadsheet

The Fields element defines the fields that appear in the spreadsheet. The Fields element is a child of the root SpreadSheet element and has child Field elements. The Fields and Field elements are defined as follows:

Note • Display Name {string} = the field name.

Fields Element Attributes

The Fields element has a single attribute, runtotal="1". If this attribute is present, a Run Total row appears at the bottom of the spreadsheet. If the Field attribute groupby is not present, runtotal is ignored.

Field Element Attributes

The attributes of the Field elements are defined as follows:

Attribute	Description
name="Column Name{string}"	The name of the field as it is returned from the database.
sort="1"	If this attribute is present, users can select whether the spreadsheet rows are sorted by the values in this field.
selectable="1"	If this attribute is present, users can show or hide this field in the spreadsheet.
criteria="1"	If this attribute is present, users can apply a condition for data displayed in the spreadsheet. These conditions are based on the data value being equal to, greater than, or less than the value specified by the user.
groupby="1"	If this attribute is present, users can drill down on values in the field to view detailed data.
drilldown="1"	If this attribute is present, the field appears only when users drill down on data in the spreadsheet. This enables you to display more relevant data in the detail view while hiding the detail when viewing summary data.
	If the groupby attribute is not present, this attribute is ignored.

Figure 5-3 • Field Element Attributes

Attribute	Description				
format="string"	This attribute specifies the format for the field. The formatting model follows that of the Microsoft .NET Framework. All numbers are formatted using the Number format by default. Additional internationalization will be automatically applied to the formatting.				
	The format characters are:				
	c, C Currency format				
	d, D Decimal format				
	e, E Scientific (exponential) format				
	f, F Fixed-point format				
	g, G General format				
	n, N Number format				
	x, X Hexadecimal format				
sum="1"	If this attribute is present, the values in the field are summed based on the groupby attribute. If the groupby attribute is not present, this attribute is ignored.				
	If the criteria attribute is present, only those values that meet the condition set by the criteria attribute will be summed and included in this field.				
function="Function Name{string}"	This attribute applies aggregate functions to columns in the spreadsheet. The following aggregates are supported:				
	Sum (Sum)				
	Avg (Average)				
	Min (Minimum)				
	Max (Maximum)				
	Count (Count)				
	StDev (Statistical standard deviation)				
	Var (Statistical variance)				
	If the groupby attribute is not present, this attribute is ignored.				
	Functions applied to crosstab spreadsheets can be overridden by the end user using the CIMS Crosstab Wizard (see <i>Running a Crosstab Advanced Spreadsheet</i> on page 4-6).				
	Note that all functions applied to fields are also reflected in the Run Total row.				

Figure 5-3 • Field Element Attributes (Continued)

Administering CIMS Server Web Reporting

Creating Custom Advanced Spreadsheets

Attribute	Description
xaxislevel="1 2"	This attribute is used only for crosstab spreadsheets. This attribute may have a value of "1" or "2".
	The value "1" specifies that the values for this field will occupy the first row of the spreadsheet.
	The value "2" specifies that the field will contain the content of the spreadsheet.
	If the criteria attribute is present, only those values that meet the condition set by the criteria attribute will be summed and included in this field.
	The values for this attribute can be overridden by the end user using the CIMS Crosstab Wizard (see <i>Running a Crosstab Advanced Spreadsheet</i> on page 4-6).
yaxislevel="1"	This attribute is used only for crosstab spreadsheets.
	This attribute specifies that the field will occupy the first column of the spreadsheet.
	This attribute can be overridden by the end user using the CIMS Crosstab Wizard (see <i>Running a Crosstab Advanced Spreadsheet</i> on page 4-6).

Figure 5-3 • Field Element Attributes (Continued)



Using Transactions

This chapter describes how to create miscellaneous, recurring, and credit transactions.

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Working With Transactions

The CIMS Server Resource (CSR) file is used to input data into CIMS Server. This file provides usage data from any IT source in a common format. CSR files are generated from usage metering files produced by systems in your organization, for example, IIS log files, SQL Server trace files, or disk usage output files.

In some circumstances, you might want to generate a CSR file for occurrences that are not contained in a usage metering file. For example, you might want to generate a CSR file to apply a credit for an overcharge or to charge for a one time occurrence such as the cost of providing a computer to a new employee. In these cases, you can create a transaction that contains the chargeback information that you want to include in the CSR file.

In summary, a transaction enables you to generate charges or credits for any item or resource that is not contained in a usage metering file.

There are three types of transactions:

- Miscellaneous Transactions. These are transactions that occur on a one-time basis. For example, charging for the services of a consultant who worked on a project for two days.
- Recurring Transactions. These are transactions that re-occur over a period of time. For example, charging for a set number of computers that are delivered to a department each quarter.
- Credit Transactions. These are transactions that apply a credit for resources units consumed or monetary charges.

To process transactions, you need to use the CIMS Data Collector for Transactions. For more information about this collector, refer to the *CIMS Data Collectors for Microsoft Windows Installation and User Guide*.

Adding Transactions

To add transactions:

- 1 Click Admin → Transactions → Miscellaneous/Recurring/Credit. Note that Miscellaneous, Recurring, and Credit are separate commands.
- **2** On the transaction list page, click **Add**.
- **3** On the add transaction page, enter the following parameters for the transaction:
 - Account Code or account code levels. Depending on the configuration set by your CIMS Server administrator for your user group, the first setting that appears on the page will be either Account Code, in which you can enter an overall account code, *or* account code level boxes, in which you can enter levels of the account code. For more information about configuring this setting, refer to the *CIMS Server Administrator's Guide*.
 - Rate Code. The rate code for the transaction.
 - Shift Code (optional). The shift code for the transaction. Shift codes are set by your CIMS Server administrator. For more information, refer to the *CIMS Server Administrator's Guide*.
 - Amount. The amount of the transaction. Usually this figure is in resource units, for example, 500 computers, but it can also be monetary. If monetary, you can type this amount with our without the decimal point. For example, 1000 or 1000.00. Credit amounts need to be specified by a minus sign (e.g., -1000).
 - From/To Date (Miscellaneous and Credit Transactions only). The date range that the transaction occurred.
 - Frequency (Recurring Transactions only). The frequency that the transaction should occur (that is, every month, every 6 months, every quarter, etc.). Frequency is based on the calendar year (January–December).
 - Enter transaction on (Recurring Transactions only). The period in which the transaction should be processed. The number of periods correlates to the value in the Frequency select box. For example, if Every 6 months is selected for frequency, six periods appear (Period 1 represents January and July, Period 2 represents February and August, etc.)

Note that the date parameter used by the Transactions collector determines which recurring transactions are processed. For example, if the collector is run in June with a date parameter of Current, and the transaction is set to **Once a year** and **Period 1** (January), the transaction will not be processed.

- Begin/End Processing on (Recurring Transactions only, optional). The date range in which you want recurring transactions to be processed. CIMS Server will not process recurring transactions before or after these dates. The default is the first day of the current month to December 31, 2199.
- Notes. Any relevant comments.
- **4** When you are finished, click **Add** to save the transaction and return the transaction list page. If you do not want to save the transaction click **Return**.

Editing Transactions

To edit miscellaneous and credit transactions:

- 1 On the transaction list page, click the date for the transaction(s) that you want to edit in the **Set the Date Range** or **From**/**To** select boxes.
- 2 Click Refresh. All transactions within the specified date range appear.
- **3** Click the **Edit** button for the transaction that you want. to edit. For a description of the settings that you can edit, see *Adding Transactions* on page 6-3.
- **4** When you have completed the edits, click **Update** to save the edits and return to the transaction list page. If you do not want to save the edits, click **Return**.

To edit recurring transactions:

- 1 Click Edit for the transaction that you want. For a description of the settings that you can edit, see *Adding Transactions* on page 6-3.
- 2 When you have completed the edits, click **Update** to save the edits and return to the transaction list page. If you do not want to save the edits click **Return**.

Deleting Transactions

To delete transactions:

On the transaction list page, click the **Delete** button for the transaction that you want to delete. You can also delete the transaction from the edit transaction page. In this case, the delete transaction page opens indicating the date and time that the transaction was deleted.

Navigating Transactions

You can navigate to the transaction pages by:

■ Clicking Admin > Transactions.

Or

• Within an open transaction list page, clicking another transaction type in the **Select Type** select box.

- 7

Troubleshooting

This chapter describes problems you may encounter while using CIMS Server Web Reporting and how to solve them. If you cannot find the answer to your question here, please contact CIMS Lab (see *Contacting Technical Support* on page 7-5).

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Connection Problems

Unable to connect to the CIMS Server Web Reporting Web site

Verify the following:

- Your Internet or network connection is working properly.
- You have appropriate network permissions and are using Internet Explorer 5.5 or later.
- You entered the correct URL.
- You have the required security permissions for the CIMS Server program folders discussed in *Assigning CIMS Server Folder Security Permissions* on page 1-7.

For assistance troubleshooting these problems, contact your system administrator.

The CIMS Server Web Reporting Web site is not opening properly

Try the following:

- **Restart IIS by clicking Start** ▶ **Run**, **type** iisreset /restart, and then click OK.
- Check the IIS security settings (refer to the CIMS Server Administrator's Guide for more information)
- If you are using Crystal Reports 8.5, make sure that you have applied the Crystal patch Crystal Decisions ActiveX Viewer Patch.exe and any other patches recommended by CIMS Lab. If you are using Crystal Reports 9, make sure that you have installed Service Pack 2. Crystal Reports patches and services packs are available on the CIMS Lab FTP site (ftp://ftp.cimslab.com) and CIMS Product CD. The path on both the FTP site and CIMS Product CD is CIMSServer\CrystalPatches.
- Install the latest service pack for Microsoft SQL Server.

Log On Problems

System will not accept user ID or password

Make sure that you are typing the correct user ID and password. Note that the user password is case-sensitive.

If the password is invalid, another possible cause is that your CIMS Server administrator did not click **Change** when he added your password in the User Maintenance dialog box in CIMS Server Administrator. The administrator must click **Change** to save the password regardless of whether he is adding the password for the first time or is changing the password. For more information about setting the user ID and password, refer to the *CIMS Server Administrator's Guide*.

Reporting Problems

Error message appears when trying to run a spreadsheet or publish a report

If you receive the following messages when you try to run a spreadsheet or publish a report, you do not have the correct security permissions for the CIMS Server program folders discussed in *Assigning CIMS Server Folder Security Permissions* on page 1-7. Contact your CIMS Server administrator or system administrator.

Spreadsheet Message

Your Web Userid does not have sufficient access rights to create spreadsheets. Please have the CIMS Web Administrator enable write permissions for the IIS Web User to the ..\CIMSLab\Server\Web folder on the CIMS Server. Consult the CIMS Server Administrator's Guide for more information.

Published Report Message

Your Web Userid does not have sufficient access rights to create published reports. Please have the CIMS Web Administrator enable write permissions for the IIS Web User to the ..\CIMSLab\Server\Reports\Published folder on the CIMS Server. Consult the CIMS Server Administrator's Guide for more information.

Reports take a long time to generate

Make sure that your Internet or network connection is working properly. It could be that excessive network usage is slowing down either the connection or the server. If you are using the ActiveX viewer and would like to stop a report that has begun loading, click the Stop Loading button (see *Stopping a Report from Loading (ActiveX Viewer Only)* on page 3-4).

If you or other users would like to view the same report again, you can avoid waiting for the report to generate by publishing or saving the report. For more information, see *Publishing Reports* on page 2-12 or *Saving Reports* on page 3-8.

Problems viewing reports

Change the viewer used to view reports. For more information, see *Choosing a Crystal Report Viewer* on page 5-6.

If you are using the Crystal Report ActiveX viewer and report headers and data do not appear in the report, you may need to use the HTML or Java viewer instead. You may not have administrative privileges to allow the ActiveX viewer to be automatically downloaded and installed on the computer on which your are trying to run the report.

Old data appears in reports

One or more old loads have not been removed from the database. Unload the old data. For more information, refer to the *CIMS Server Administrator's Guide*.

Cannot drill down in reports

Certain items do not have any additional information available. If you place the cursor on an item and the cursor icon becomes a magnifying glass or a hand, you can drill down. If it does not, there is no detailed information available about the item.

If you cannot drill down on items that should have drill down capability, install the ActiveX patch from Crystal. CIMS Lab provides this patch on the CIMS Lab FTP site and the product CD (...\CIMSServer\CrystalPatches\Crystal Decisions ActiveX Viewer Patch.exe).

Error message appears when running reports

If one of the following error messages appears when running a report:

- A time-out message that appears immediately.
- -2147192179 An error has occurred on the server in attempting to access the data source.

Click Administration > Database > Database Object Manager in CIMS Server Administrator and add any database objects that do not exist in the database (that is, No appears in the Exists column for an object or objects).

If this does not solve the problem, drop all stored procedures, indexes, triggers, and views in the Database Objects Manager dialog box and then create them again.

Important! • Do not drop the tables in the Database Objects Manager dialog box. Dropping a table removes the table and its data from the database.

To view a more detail error message, run the report directly from Crystal Reports (not from the Web browser).

Reports are missing from reports lists

If reports that you used to be able to access are missing from reports lists, your CIMS Server administrator may have removed access to those reports from you user group. Contact your CIMS Server administrator.

General Problems

Web reporting session is timing out before or after session timeout value

If you change the **Session Timeout Minutes** value, the change will not take effect until you restart IIS. For instructions on how to restart IIS, see page 7-2.

Computer locks up or runs slowly

The computer might not have enough memory to process. Try running the application on a PC with more memory (preferably 256 MB or more).

Contacting Technical Support

The CIMS Lab Technical Support department is here to answer your questions on any aspect of CIMS Lab products.

CIMS Lab technical support can be reached in the following ways:

- **Telephone**: (800) 283-4267 in USA and Canada; 916-783-8525 International
- **E-mail**: support@cimslab.com
- **Fax request**: (916) 783-2090

International customers may contact one of our authorized international partners. Contact CIMS Lab for more information.

In addition, customers may visit the Customer Area on our Web site for product downloads, updates, technical documentation, and password information. We are on the Web at http://www.cimslab.com.

Troubleshooting

Contacting Technical Support

Standard Reports

This appendix describes the standard reports provided with CIMS Server.

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About CIMS Server Reports

CIMS Server produces chargeback and resource accounting reports based on IT usage data from your organization. To help you to easily create reports that display the information that you need, CIMS Server includes a variety of standard reports that you can use as templates. Standard reports are available as .rpt files for Crystal Reports and .rdl files for SQL Server Reporting Services.

This appendix provides a description of each standard report with the exception of CIMS Advanced Spreadsheets, which are described in *Standard Advanced Spreadsheet Descriptions* on page 4-14.

For more information about the different types of reports available, see *Introduction to Report Types* on page 2-2.

Location of CIMS Server Reports

If you installed CIMS Server in the default location, reports are located in the following folders. Each of these folders contains the following subfolders: Standard, Custom, and Published. For example, ReportsSQL\Standard, ReportsSQL\Custom, and ReportsSQL\Published.

Crystal Reports

- C:\Program Files\CIMSLab\Server\Reports85 (contains Crystal 8.5 reports for SQL Server only)
-\ReportsORADB2 (contains Crystal reports for Oracle and DB2)
- ...\ReportsSQL (contains Crystal reports for SQL Server)

SQL Server Reporting Services Reports

C:\Program Files\CIMSLab\Server\ReportsMSRS

CIMS Advanced Spreadsheets

■ C:\Program Files\CIMSLab\Server\AdvSpreadsheets

How CIMS Server Web Reporting Determines the Report Folder to Use

The folder that is used for Web reporting is determined when the CIMS Server database is initialized. Database initialization is performed as part of the CIMS Server set up process. For more information about initializing the database and selecting the report folder, refer to the *CIMS Server Administrator's Guide*.

Storing All Reports in the Same Folder

You need to use one Standard, Custom, and Published folder for all report types. For example, if your reports are in the ReportsSQL folder and you also want to use Reporting Services and CIMS Advanced Spreadsheets, you need to copy the Reporting Services reports and advanced spreadsheets to the corresponding subfolder in the ReportsSQL folder. That is, copy the reports in ReportsMSRS\Standard to ReportsSQL\Standard, etc.

Report Naming Conventions

The following is the file naming convention for the CIMS Server standard reports for Crystal Reports and SQL Server Reporting Services:

The type of report: (G)raph, (I)Drill down, (R)eport, (S)preadsheet, (X)Crosstab
Description of report (if template, TMP)
Function of report: (R)esource, (C)ost, (B)oth, (U)ser, (X)Other
Note: With the exception of the Job Cost Report, all cost (C) reports reflect data in the CIMSSummary table.
Numbering sequence for reports of the same type (for example, invoice, budget, trend)

For example, the file name RBGTC001.rpt represents the following:

- R = Report
- BGT = Budget
- C = Cost
- 001 = Report number

Conventions Used in This Appendix

The reports listed in this appendix are grouped by type (graphs, drill down reports, reports, spreadsheets, crosstab reports, and templates) and are presented in alphabetical order by file name.

Each report includes a description with the following information:

File name. The name of the report file.

Stored Procedure. The stored procedure used for the report (if applicable). A stored procedure is a set of SQL statements that can perform both queries and actions that allow the system to generate reports.

Drill down. The drill down features for the report (if applicable).

Parameters. The parameters for the report such as starting and ending account codes, account code level, and from and to dates. For a description of these parameters, see *Using Report Parameters* on page 2-4.

Reports by File Name

For easy reference, the following lists each standard report by file name and provides the page number where you can find the report description. Reports that begin with RTMP or STMP are report templates, which are in the ...Standard/Templates folder.

GTRDC001.rpt page A-9 GTRDC002.rpt page A-10

GTRDR001.rpt page A-11

IINXCOO1.rdl page A-12

IINXC001.rpt page A-12

IINXC002.rdl page A-14

IINXCO02.rpt page A-14

IINXCOO4.rpt page A-15

IINXC005.rpt page A-17

IINXCOO6.rdl page A-18

IINXC006.rpt page A-18

RACLX001.rpt page A-20

RARTX001.rpt page A-22

RATRX001.rpt page A-24

RBATR001.rpt page A-25

RBGTC001.rpt page A-26

RBGTC002.rpt page A-27

RCFGX001.rpt page A-28

RCICR001.rpt page A-29

RCLTX001.rpt page A-30 RDAYCOO1.rpt page A-31 RDAYCO02.rpt page A-32 RDB2R001.rpt page A-33 RDETRO01.rpt page A-34 RDETRO02.rpt page A-35 RDRIR001.rpt page A-36 RDRIR002.rpt page A-37 REX2R001.rpt page A-38 RINVCOO1.rpt page A-39 RINVC002.rpt page A-39 RINVCOO3.rpt page A-41 RINVC004.rpt page A-42 RINVCOO6.rpt page A-44 RINVC007.rdl page A-46 RINVCO07.rpt page A-48 RINVC009.rpt page A-50 RIVTC001.rpt page A-52 RIVTC002.rpt page A-53

RIVTC003.rpt page A-54 SINVCOO1.rpt page A-83 RIVTC004.rpt page A-55 SINVC002.rpt page A-84 RIVZC001.rpt page A-56 SINVCOO3.rpt page A-85 RIVZC002.rpt page A-58 SINVCO04.rpt page A-86 RJOBC001.rpt page A-59 SPERX001.rpt page A-87 RMS2R001.rpt page A-61 SPERX002.rpt page A-88 SPERX003.rpt page A-89 RPERX001.rpt page A-62 RRATX001.rpt page A-63 STMPB001.rpt page A-110 STMPC001.rpt page A-112 RTMPB001.rpt page A-107 RTMPC001.rpt page A-109 STMPR001.rpt page A-113 STOPCO04.rpt page A-90 RTMPR001.rpt page A-110 SWEKCOO1.rpt page A-91 RTOPC001.rpt page A-64 SYTDC001.rpt page A-92 RTOPCO02.rpt page A-66 SYTDC002.rpt page A-93 RTOPC003.rpt page A-68 SYTDC003.rpt page A-94 RTOPC004.rpt page A-70 XDAYCOO1.rpt page A-95 RTRDC001.rpt page A-71 XDAYR001.rpt page A-96 RTRDC002.rpt page A-72 XDETRO01.rpt page A-97 RTRDR001.rpt page A-73 XDETRO02.rpt page A-98 RTRNX001.rpt page A-74 XMONCO01.rpt page A-99 RVARCOO1.rpt page A-75 XMONR001.rpt page A-100 RVARC002.rpt page A-76 XSUMC001.rpt page A-101 RVARR001.rpt page A-77 XSUMC002.rpt page A-102 RWDKR001.rpt page A-78 XSUMR001.rpt page A-103 RWEKC001.rpt page A-79 XSUMR002.rpt page A-104 RWEKC002.rpt page A-80 XWEKCO01.rpt page A-105 RYTDC001.rpt page A-81 XWEKR001.rpt page A-106 RYTDC002.rpt page A-82

Graphs

Cost Trend–Accounts Graph

File name: GTRDC001.rpt

Stored Procedure: CIMSSP_Summary_Month

This graph report provides the total charges for all account codes for each month for the parameters selected followed by charges for individual account codes for each month.

Drill down: None

Parameters:

- Report Year
- Account Code Level
- Starting and Ending Account Code

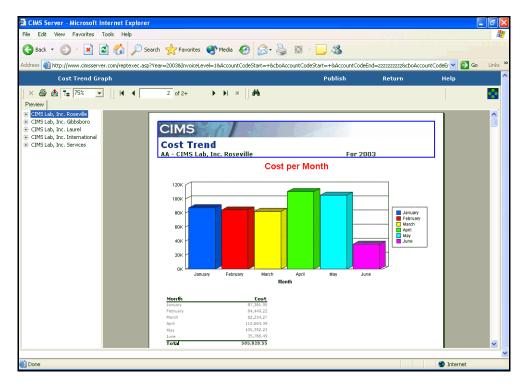


Figure A-1 • Cost Trend–Accounts Graph Example

Cost Trend–Rates Graph

File name: GTRDC002.rpt

Stored Procedure: CIMSSP_Summary_Month

This graph report provides the total charges for all rate codes for each month for the parameters selected followed by charges for individual rate codes for each month.

Drill down: None

Parameters:

- Report Year
- Starting and Ending Account Code

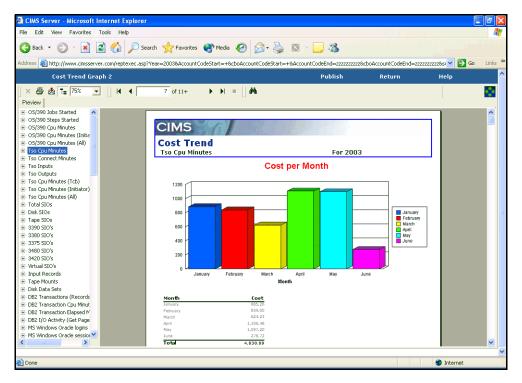


Figure A-2 • Cost Trend–Rates Graph Example

Resource Trend Graph

File name: GTRDR001.rpt

Stored Procedure: CIMSSP_Summary_Month

This graph report provides the total resource usage for all rate codes for each month for the parameters selected followed by resource usage for individual rate codes for each month.

Drill down: None

Parameters:

- Report Year
- Starting and Ending Account Code

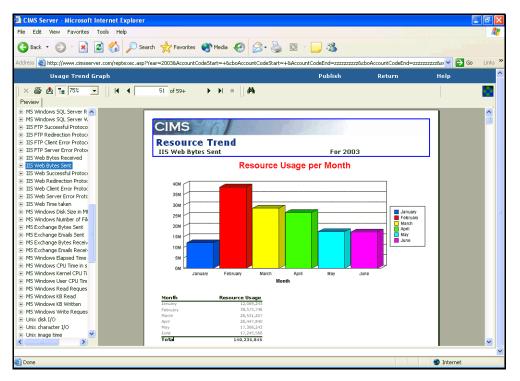


Figure A-3 • Resource Trend Graph Example

Drill Down Reports

Drill down reports enable you to view a breakdown of resource units by an identifier or identifiers. Drill down reports are invoked from other reports and cannot be run independently.

Invoice Drill Down for Rate Group Report

File name: IINXCOO1.rdl (SQL Server Reporting Services)

IINXCOO1.rpt (Crystal Reports)

Stored Procedure: CIMSSP_Drilldown_by_RateGroup

This report enables drill down of the charges for a rate group by identifier name. For example, the report in Figure A-4 on page A-13 provides a drill down of a rate group for charges associated with the identifier name Jobname. Charges for each rate code within the rate group are broken down by the identifier values for Jobname.

This report invokes from the following reports.

- Invoice with Budgets (see page A-42)
- Invoice (see page A-44)
- Invoice by Account Level for Reporting Services (see page A-46)
- Invoice by Account Level or Invoice by Account Level V2 for Crystal Reports (see page A-48)
- Invoice with Shifts (see page A-50)
- Zero Cost Center Invoice (see page A-56)

Drill down: None

Parameters:

- Identifier name
- All other parameters are supplied by the invoice report

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dress 🕘 http://localhost/Demo/cr	ystalReportsInteractiveViewer2.asp				💌 🔁 Go 🛛 🥰
			Publish	Return	Help
🛃 🗂 Main Report 🛩		⇒1	100% 🔽 📙	? crystal 💠	
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LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS05 LASS06		.58 1,018.60 .47 888.10 .18 1,017.70 .16 836.50 .85 963.61 .02 895.10	4,192 4,503 2,098 2,046 4,771 4,119	4,525 4,813 2,306 2,247 5,045 4,359	
LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS06 LASS06 LASS07		.58 1,018.6 .47 888.1 .18 1,017.7 .16 836.5 .85 963.6 .02 895.1 .57 986.4	4,192 4,503 2,098 2,046 4,771 4,119 3,848	4,525 4,813 2,306 2,241 5,045 4,355 4,005	
LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS06 LASS06 LASS07 LASS06		.58 1,018.60 .47 888.10 .18 1,017.70 .16 835.51 .85 963.61 .02 885.11 .57 986.44 .01 1,004.77	4,192 4,503 2,098 2,046 4,771 4,179 3,848 1,731	4,52 4,81 2,304 2,24 5,04 4,35 4,00 1,88	
LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS05 LASS07 LASS08 LASS09		.58 1,018.60 .47 088.10 .18 1,017.71 .16 0836.55 .02 0895.11 .57 996.44 .01 1,004.75	4,192 4,503 2,046 4,771 4,119 3,848 1,733 9 952	4,52 4,81 2,248 2,242 5,04 4,355 4,00 1,688 1,060	
LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS06 LASS06 LASS09 LASS09 LASS09		.58 1,018.60 .47 888.10 .18 1,017.70 .16 835.51 .85 963.61 .02 885.11 .57 986.44 .01 1,004.77	4,192 4,503 2,096 2,046 4,119 4,119 3,844 1,771 4,119 3,844 1,773 1,731 4,244 2,244	4,525 4,813 2,306 2,244 5,645 4,355 4,000 1,888 1,000 2,277	
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LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS06 LASS06 LASS09 LASS09 LASS10 LASS11 LASS12		.58 1,018.60 .47 848.11 .48 1,012.77 .18 1,012.77 .19 6,02 .02 895.11 .57 946.4 .01 1,004.77 .58 436.32 .61 1,004.77 .53 345.32 .23 713.47 .12 5.66	4,192 4,503 2,098 4,503 4,503 4,503 4,503 4,504 4,503 4,504 4,503 4,504 4,503 4,504 4,503 4,504 4,5034	4,52 4,81 2,309 5,644 4,355 4,000 1,688 1,000 2,371 8	
LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS05 LASS06 LASS06 LASS06 LASS10 LASS11 LASS11 LASS12 2900A		58 1.018.64 47 608.11 18 1.017.74 18 6.017.14 19 6.017.14 10 836.51 57 908.64 .01 1.004.77 .57 905.44 .01 1.004.77 .58 436.32 .23 .713.44 .54 56 .55 82.66	4,192 4,503 2,098 4,7777 4,7777 4,7777 4,7777 4,7777 4,7777 4,77777 4,777777 4,77777777	4,525 4,615 2,290 2,247 4,355 4,405 1,685 1,065 2,371 8 8 3,180 3,180	
LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS06 LASS06 LASS09 LASS09 LASS10 LASS11 LASS12 3900		58 1.018.6f 47 0.018.6f 480.11 1.017.7f 18 1.017.7f 19 0.017.1f 10 0.017.1f 10 0.017.1f 10 0.017.1f 10 0.01 10 1.004.7f 11 1.004.7f 12 7.03.0f 12 5.06 50 0.022.6f 50 0.022.6f	4,192 4,503 2,096 4,503 4,503 4,503 4,503 4,5044,504 4,5044	4,522 4,813 2,240 2,244 4,554 4,554 4,000 1,000 2,277 8 3,100 2,27 3,100 2,27 3,100 2,217 2,100 2,217 2,100 2,217 2,100 2,217 2,100 2,217 2,100 2,217 2,100 2,210	
LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS06 LASS06 LASS09 LASS09 LASS10 LASS11 LASS12 3900		58 1.018.64 47 698.13 48 698.14 49 698.14 41 698.14 41 698.14 41 698.14 41 698.14 41 698.14 42 693.64 43 693.64 43 1.004.7 53 498.34 43 7.13.93 43 6.24 54 612.24 54 612.24 54 612.24	4,192 4,503 2,098 4,5777 4,5777 4,5777 4,57777 4,57777 4,57777777777	4.522 4,811 2,260 2,240 4,554 4,600 1,688 1,100 2,277 8,77 8,180 3,180 2,127 2	
LASS00 LASS01 LASS02 LASS03 LASS04 LASS05 LASS05 LASS07 LASS07 LASS06 LASS09 LASS11 LASS11 LASS11 LASS12 J300A 33000		58 1.018.6f 47 0.018.6f 48 1.017.7f 18 1.017.7f 19 1.017.7f 10 836.5f 40 963.6f 40 963.6f 57 964.4f 58 436.3f 53 436.3f 54 436.3f 55 436.3f 56 926.6f 101 0.24 2.071.9f 0.4f 42 2.0f4.6f 03 0.7f	4,192 4,503 2,098 4,5777 4,5777 4,5777 4,57777 4,57777 4,57777777777	4.522 4,811 2,2360 2,240 3,540 4,455 4,455 4,455 4,450 2,377 8,180 3,180 3,180 2,17 2,17 2,17 2,17 2,17 2,17 2,17 2,17	

Figure A-4 • Invoice Drill Down for Rate Group Report Example

Invoice Drill Down for Rate Group by Date Report

File name: IINXC002.rdl (SQL Server Reporting Services)

IINXC002.rpt (Crystal Reports)

Stored Procedure: CIMSSP_Drilldown_by_RateGroup_Date

This report is similar to the Invoice Drill Down for Rate Group report (see page A-12). However, it also provides a breakdown of the data by date.

Drill down: None

Parameters:

- Identifier name
- All other parameters are supplied by the invoice report

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	11/9/2004 11/10/2004 11/11/2004	0.07	11.24 67.51 216.77 148.15	33 221 831 256	2 7 2 1 8 9 2 3 7
.A\$\$00	11/9/2004 11/10/2004 11/11/2004 11/11/2004 11/12/2004	0.07 0.19 0.49 0.16 1.30	11.24 67.51 216.77 148.15 49.52	33 221 831 255 685	2 7 2 1 8 9 2 3 7 3 2,2
.A\$\$00	11/9/2004 11/10/2004 11/11/2004 11/12/2004 Total	0.07 0.19 0.49 0.16 1.30 2.20	11.24 67.51 216.77 148.15 49.52 493.19	33 222 831 255 683 2,022	2 7 2 1 8 9 2 3 7 3 2,2 1 3 3
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.A\$\$00	11/9/2004 11/10/2004 11/11/2004 11/11/2004 Total 11/8/2004 11/9/2004 11/10/2004 11/10/2004	0.07 0.19 0.49 0.16 0.13 0.220 0.22 0.42 0.47	11.24 67.51 216.77 1484.15 49.52 493.19 45.34 254.30 326.96 392.05 392.05	34 221 833 259 683 2,023 321 1,284	2 7 2 7 2 9 2 3 7 7 9 2 2 2 1 3 8 1.3 1 2.0
LA5500 LA5501	11/9/2004 11/10/2004 11/12/2004 11/12/2004 11/12/2004 11/9/2004 11/9/2004 11/10/2004 11/11/2004 11/11/2004 11/11/2004	0.07 0.19 0.19 0.16 1.30 0.220 0.22 0.47 0.47 0.64	11.24 67.51 216.77 148.15 49.52 493.19 493.19 493.19 493.19 493.19 493.19 493.25 4,30 254.30 236.69	33 2222 683 255 685 255 255 252 322 322 322 322 1,228 1,228 1,228 666 4,157 4,157	2 7 2 7 2 8 7 7 3 2,2,2 4 3 3 9 1,1,3 1 2,00 1,3 1 2 2 4,5 5 2
LA5500 LA5501	11/9/2004 11/1/10/2004 11/1/1/2004 11/1/12/2004 10/1/2/2004 11/10/2004 11/10/2004 11/10/2004 11/11/2004 11/11/2004 11/12/2004	0.07 0.19 0.49 0.20 0.220 0.220 0.47 0.64 0.64 0.65 0.58 0.158 0.158	11.24 67.51 216.77 1148.15 49.52 493.19 45.34 25.49 392.05 1,018.66 6.64	3; 222; 833 255 666 2,202 322 1,202 1,202 1,202 1,202 1,202 666 4,110 101	2 7 2 8 7 2 9 7 2 9 7 2 2 2 1 3 9 1.3 9 1.3 9 1.3 9 1.3 9 1.3 9 1.3 9 1.3 9 2.4 5 5 2 4.5 5 2 1 1
LA5500 LA5501	11/9/2004 11/10/2004 11/11/2004 11/11/2004 11/12/2004 11/9/2004 11/19/2004 11/10/2004 11/11/2004 11/1/2004 11/9/2004	0.07 0.19 0.49 0.16 0.10 0.10 0.22 0.07 0.47 0.64 0.22 0.47 0.64 0.22 0.64 0.22 0.64 0.22 0.64 0.22 0.64 0.15 0.07	11.24 6751 216.77 140.15 49.52 49.52 49.319 45.34 26.49 92.05 1.018.66 6.64 6.64 283.20	33 2222 666 2,023 322 1,204 1,929 666 4,104 100 1,007	2 7 22 8 28 9 22 9 22 9 22 9 22 9 22 1 39 1 20 2 45 2 45 2 1 16 5 1.6
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obaane LASSOO LASSO1	11/9/2004 11/10/2004 11/11/2004 11/11/2004 11/12/2004 11/9/2004 11/10/2004 11/11/2004 11/0/2004 11/0/2004 11/10/2004 11/11/2004 11/11/2004	0.07 0.19 0.49 0.16 1.30 0.22 0.47 0.47 0.64 0.25 0.45 0.64 0.25 0.45 0.25 0.45 0.25 0.45 0.25 0.45 0.45 0.25 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.4	11.24 6751 216.77 1480.15 4052 403.19 4534 254.30 226.56 3322.05 1.018.66 6.64 203.20 307.61 233.81	33 2222 893 255 666 2,022 322 1,020 1,020 4,019 1,020 4,019 1,000	2 2 2 2 2 2 2 2 2 2 2 2 2 2
LASS00 LASS01	17/9/2004 17/17/2004 17/17/2004 17/17/2004 17/9/2004 17/9/2004 17/9/2004 17/17/2004 17/17/2004 17/9/2004 17/19/2004 17/17/2004 17/17/2004 17/17/2004	0.07 0.19 0.40 0.19 0.130 0.22 0.022 0.047 0.64 0.64 0.64 0.58 0.128 0.078 0.123 0.078 0.123 0.078 0.020 0.079 0.020 0.000 0.000 0.000 0.000 0.00000000	11.24 6751 216.77 148.15 4952 493.19 4534 326.96 3226 5 1,018.66 6.64 4 283.20 307.61 273.21 307.61 273.21 36.44	3; 222 68; 25; 68; 2,02; 322; 1,22; 1,62; 1,62; 1,62; 1,62; 1,60; 1,60; 1,60; 1,60; 2,27; 4,41; 1,60; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,41; 2,27; 4,27; 2,27; 4,27; 2,27; 4,27; 2,27; 4,27; 2,27; 4,27; 2,27; 4,27; 2,27; 4,47; 4,47;	2 7 22 7 28 8 9 22 9 13 9 13 9 13 9 13 9 13 9 13 9 13 9 13
LASS00 LASS01 LASS02	11/9/2004 11/10/2004 11/11/2004 11/11/2004 11/12/2004 11/9/2004 11/10/2004 11/10/2004 11/10/2004 11/10/2004 11/10/2004 11/10/2004 11/11/2004 11/11/2004 11/11/2004 11/11/2004 11/11/2004	0.07 0.07 0.09 0.04 0.06 0.13 0.22 0.07 0.22 0.07 0.22 0.07 0.22 0.07 0.22 0.07 0.22 0.07 0.22 0.23 0.22 0.47 0.22 0.47 0.22 0.47 0.22 0.47 0.22 0.47 0.22 0.47 0.22 0.47 0.45 0.22 0.47 0.45 0.22 0.47 0.45 0.45 0.22 0.47 0.45 0.47	11.24 67.51 2716.77 148.15 495.29 493.19 45.34 30 326.06 332.25 1.618.66 6.64 283.20 3907.61 273.81 36.44 888.10	33 222 833 2556 666 2.022 322 1.020 1.020 1.020 1.020 1.020 1.020 1.0000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000000	2 2 3 3 3 3 4 3 3 4 2,2 4 3 3 4 2,2 4 3 3 4 2,0 4 5 1,0 4 5 1,0 4 5 1,0 4 5 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0
LASS00 LASS01	17/9/2004 17/17/2004 17/17/2004 17/17/2004 17/9/2004 17/9/2004 17/9/2004 17/17/2004 17/17/2004 17/9/2004 17/19/2004 17/17/2004 17/17/2004 17/17/2004	0.07 0.19 0.40 0.19 0.130 0.22 0.022 0.047 0.64 0.64 0.64 0.58 0.128 0.078 0.123 0.078 0.123 0.078 0.020 0.079 0.020 0.000 0.000 0.000 0.000 0.00000000	11.24 6751 216.77 148.15 49.52 493.19 453.34 254.30 326.66 392.65 1.618.66 6.64 4.23 397.61 253.41 36.84 888.10 4.23	33 2222 68 333 255 68 322 322 322 322 1,224 1,244 1,24	2 7 22 8 77 7 22 8 77 7 22,22 1 33 9 1.1,33 1 2,00 1 3,33 1 2,00 1 3,33 2 4,53 2 1,135 2 1,135 2 4,53 2 4,5

Figure A-5 • Invoice Drill Down for Rate Group by Date Report Example

Invoice Drill Down for Units Report

File name: IINXC004.rpt

Stored Procedure: CIMSSP_Drilldown_by_Rate

This report enables drill down of resource units by identifier name. For example, the report in Figure A-6 on page A-16 provides a drill down of resource units for the units associated with the identifier name Jobname. Units are broken down by the identifier values for Jobname.

This report invokes from the following reports.

- Alternate Invoice (see page A-39)
- Invoice with Budgets (see page A-42)
- Invoice (see page A-44)
- Invoice by Account Level or Invoice by Account Level V2 (see page A-48)
- Invoice with Shifts (see page A-50)
- Run Total Invoice 2 (see page A-55)
- Zero Cost Center Invoice (see page A-56)

Drill down: None

Parameters:

- Identifier name
- All other parameters are supplied by the invoice report

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ABC037					
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ABC140					
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Figure A-6 • Invoice Drill Down for Units Report Example

Invoice Drill Down for Units by Date Report

File name: IINXC005.rpt

Stored Procedure: CIMSSP_Drilldown_by_Rate_Date

This report is similar to the Invoice Drill Down for Units report (see page A-15). However, it also provides a breakdown of the data by date.

Drill down: None

Parameters:

- Identifier name
- All other parameters are supplied by the invoice report

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From 6/1/2003 to 6/30/20	102			
<u>Jobname</u>	<u>Units</u>			
DATE ABC002				
6/2/2003	0.03			
Total for: ABC002	0.03			
ABC016				
5/30/2003	0.20			
6/2/2003	0.21			
6/3/2003	0.21			
6/5/2003	0.21			
6/6/2003	0.21			
Total for: ABC016	1.04			
ABC030				
ABC030	0.40			
5/30/2003	0.40			
5/30/2003 6/2/2003	0.40 2.20 2.67			
5/30/2003	2.20			
5/30/2003 6/2/2003 6/3/2003	2.20 2.67			

Figure A-7 • Invoice Drill Down for Units by Date Report Example

Multilevel Drill Down for Units Report

File name: IINXCOO6.rdl (SQL Server Reporting Services)

IINXC006.rpt (Crystal Reports)

Stored Procedure: CIMSSP_Drilldown_3D

This report enables drill down of resource units by up to five identifier names. For example, the report in Figure A-8 on page A-19 provides a drill down of resource units by the identifier values associated with the identifier names System ID, Jobname, and Work ID.

To enable this report, the report file name IINXC006 must be entered in the Configuration dialog box in CIMS Server Administrator (refer to the *CIMS Server Administrator's Guide*). If this option is not set, the Invoice Drill Down for Rate or Invoice Drill Down for Rate by Date report is invoked.

This report invokes from the following reports.

- Alternate Invoice (see page A-39)
- Invoice with Budgets (see page A-42)
- Invoice (see page A-44)
- Invoice by Account Level for Reporting Services (see page A-46)
- Invoice by Account Level or Invoice by Account Level V2 for Crystal Reports (see page A-48)
- Invoice with Shifts (see page A-50)
- Zero Cost Center Invoice (see page A-56).

Drill down: None

Parameters:

- Identifier name 1
- Identifier name 2
- Identifier name 3
- Identifier name 4
- Identifier name 5
- All other parameters are supplied by the invoice report

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0002	144					
AR11DALY	144					
DIBA						
0002	552					
DIBA	552					
DIBA						
	552 816					

Figure A-8 • Multilevel Drill Down for Units Report Example

Reports

Client Audit Report

File name: RACLX001.rpt

Stored Procedure: CIMSSP_AuditClient

This report tracks changes to the CIMS Client table and contains the following:

- Date and time the change was made
- The type of change that was made:
 - U = update to existing data
 - I = addition of new data
 - D = deletion of data
- Windows user ID
- Client account code
- Old account name (if applicable)
- New account name (if applicable)

Drill down: None

Parameters:

- From and To Date
- Audit Type

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Figure A-9 • Client Audit Report Example

Rate Audit Report

File name: RARTX001.rpt

Stored Procedure: CIMSSP_AuditRate

This report tracks changes to the CIMS Rate table and contains the following:

- Date and time the change was made
- The type of change that was made:
 - U = update to existing data
 - I = addition of new data
 - D = deletion of data
- Windows user ID
- Rate code
- Old and new rate value
- Old and new rate per resource unit or per thousand unit indicator:
 - M (Per thousand units)
 - Blank (Per unit)
- Old and new resource conversion factor:
 - 1 (Divide total resource value by 60)
 - 2 (Divide total resource value by 3600)
 - 3 (Divide total resource value by 1000)
 - 4 (Multiply total resource value by 60)
 - 5 (Divide total resource value by 60000)
 - # (Multiple total resource value by user-defined number)
 - Blank (No conversion factor)
- Old and new zero cost indicator:
 - N (The rate will not be included in zero cost calculations)
 - Blank (The rate will be included in zero cost calculations)

Drill down: None

Parameters:

- From and To Date
- Rate Code
- Audit Type

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Figure A-10 • Rate Audit Report Example

Transaction Audit Report

File name: RATRX001.rpt

Stored Procedure: CIMSSP_AuditTransaction

This report tracks changes to the CIMS Transaction table and contains the following:

- Date and time the change was made
- The type of change that was made:
 - U = update to existing data or transaction marked as deleted
 - I = addition of new data
- User ID (usually the Windows user ID or SQL Server user ID)
- Account code
- Old and new rate code
- Old and new amount

Drill down: None

Parameters:

- From and To Date
- Audit Type

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Figure A-11 • Transaction Audit Report Example

Batch Report

File name: RBATR001.rpt

Stored Procedure: CIMSSP_Batch

This report provides OS/390 batch job data for the parameters selected. This data is taken from the CIMSDetail table.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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Figure A-12 • Batch Report Example

Account Budget for Period and YTD Report

File name: RBGTC001.rpt

Stored Procedure: None

This report provides actual, budget, and difference charges by account code for the parameters selected. This report includes totals for the calendar period selected and year to date (YTD).

This report reflects the amount for the Overall Account Budget for the account code as set in the CIMS Client Budget table. For more information about setting budgets, refer to the *CIMS Server Administrator's Guide*.

Drill down: None

Parameters:

- Starting and Ending Account Code
- Account Code Level
- Calendar Period

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CIMS Account Budget	for Perio	d and YT	D				
		m: 06/01/2003 to			YTD		
AccountCode	Actual	Budget	Difference	Actual	Budget	Difference	
AA-CIMS Lab, Inc. Roseville	51,003.59	58,333.33	7,329.74	521,065.65	350,000.00	-171.065.65	
BB-CIMS Lab, Inc. Gibbsboro	26,168.74	25,000.00	-1,168.74	239,437.83	150,000.00	-89,437.83	
CC-CIMS Lab, Inc. Laurel	56,194.66	50,000.00	-6,194.66	389,083.84	300,000.00	-89,083.84	
DD-CIMS Lab, Inc. International	10,633.78	10,000.00	-633.78	55,872.18	60,000.00	4,127.82	
EE-CIMS Lab, Inc. Services	11,169.30	16,666.67	5,497.37	52,351.68	100,000.00	47,648.32	
Grand Total	155,170.07	160,000.00	4,829.93	1,257,811.18	960,000.00	-297,811.18	

Figure A-13 • Account Budget for Period and YTD Report Example

Line Item Budget for Period and YTD Report

File name: RBGTC002.rpt

Stored Procedure: CIMSSP_LineItem_Budget

This report provides actual, budget, and difference charges by account code, rate group and rate code description for the parameters selected. This report includes totals for the calendar period selected and YTD.

This report reflects the amount for the individual resource budgets for the account code as set in the CIMS Client Budget table. For more information about setting budgets, refer to the *CIMS Server Administrator's Guide*.

Drill down: None

Parameters:

- Account Code Level
- Calendar Period
- Starting and Ending Account Code

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	From: 06/01/	2003 to 06/30/2003			YTD	
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			Difference	Actual		Differe
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A-CIMS Lab, Inc. Roseville D82 Transactions (Records) D82 Transaction Elapsed Minutes	Actual	Budget			Budget	Differe
A-CIMS Lab, Inc. Roseville D82 Transactions (Records) D82 Transaction Elapsed Minutes	Actual 0.26	Budget	0.99	2.86	Budget 7.50	Differe
A-CIMS Lab, Inc. Roseville DB2 Transactions (Records)	Actual 0.26 0.04 0.30	Budget 1.25 0.83 2.08	0.99 0.79 1.78	2.86 0.57 3.43	Budget 7,50 5.00 12.50	Differe
A-CIMS Lab, Inc. Roseville D82 Transactions (Records) D82 Transaction Elapsed Minutes O\$/390 DB2	0.26 0.04	Budget 1.25 0.83	0.99 0.79	2.86 0.57	Budget 7.50 5.00	Differe
A-CIMS Lab, Inc. Roseville DB2 Transactions (Records) DB2 Transaction Elapsed Minutes OS/390 DB2 Unix disk I/O Unix disk I/O	Actual 0.26 0.04 0.30	Budget 1.25 0.83 2.08	0.99 0.79 1.78	2.86 0.57 3.43	Budget 7,50 5.00 12.50	Differe
A-CIMS Lab, Inc. Roseville DB2 Transactions (Records) DB2 Transaction Elapsed Minutes OS/390 DB2 Unix diak I/O Unix diak I/O Unix image time	Actual 0.26 0.04 0.30 4.51	Budget 1.25 0.83 2.08 2.08	0.99 0.79 1.78 -2.43	2.86 0.57 3.43 432.44	Budget 7.50 5.00 12.50 12.50	Differe
A-CIMS Lab, Inc. Roseville DB2 Transactions (Records) DB2 Transaction Elapsed Minutes OS/390 DB2 Unix disk 1/0 Unix character 1/0	Actual 0.26 0.04 0.30 4.51 0.03	Budget 1.25 0.83 2.08 2.08 1.67	0.99 0.79 1.78 -2.43 1.64	2.86 0.57 3.43 432.44 2.78	Budget 7.50 5.00 12.50 12.50 10.00	Differs
A-CIMS Lab, Inc. Roseville DB2 Transactions (Records) DB2 Transaction Elapsed Minutes OS/390 DB2 Unix diak I/O Unix diak I/O Unix image time	Actual 0.26 0.04 0.30 4.51 0.03 167.05 35.19	Budget 1.25 0.83 2.08 1.67 208.33 25.00	0.99 0.79 1.78 -2.43 1.64 41.28 -10.19	2.86 0.57 3.43 432.44 2.78 250.49 157.20	Budget 7.50 5.00 12.50 10.00 1,250.00 1,250.00	Differ
A-CIMS Lab, Inc. Roseville DB2 Transactions (Records) DB2 Transaction Elapsed Minutes OS/390 DB2 Unix disk I/O Unix character I/O Unix image time Unix connect time	Actual 0.26 0.04 0.30 4.51 0.03 167.05	Budget 1.25 0.83 2.08 2.08 1.67 208,33	0.99 0.79 1.78 -2.43 1.64 41.28	2.86 0.57 3.43 432.44 2.78 250.49	Budget 7.50 5.00 12.50 12.50 10.00 1,250.00	Differe

Figure A-14 • Line Item Budget for Period and YTD Report Example

Configuration Report

File name: RCFGX001.rpt

Stored procedure: None

This report provides information contained in the CIMS Configuration table.

Drill down: None

Parameters: None

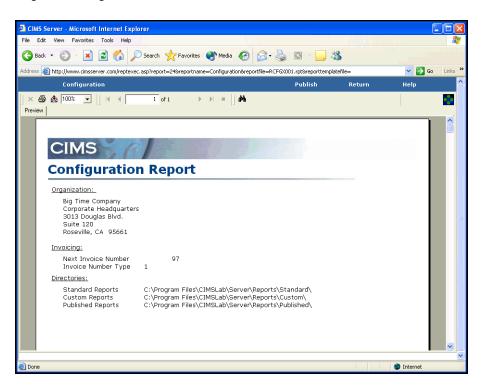


Figure A-15 • Configuration Report Example

CICS Transaction Report

File name: RCICR001.rpt

Stored Procedure: CIMSSP_CICS

This report provides data for CICS transactions by transaction ID for the parameters selected. This data is taken from the CIMSDetail table.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Trans ID Start
- Trans ID End

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	Date TRAN ID CESF CESF CESF	Range: AA BB	1/1/1998 to 12,	DATE 7/31/2003 7/31/2003 7/31/2003	6 2 6 14	TIME <u>\$\$\$\$\$\$.\$\$\$\$\$\$</u> 0.03299 0.00953 0.09227 0.13479	TIME <u>\$\$\$\$\$</u> 0.02636 0.00842 0.03011 0.06489	INPUTS 6 2 6 14	
	Date TRAN ID CESF CESF CESF CESF	AA BB CC	1/1/1998 to 12,	7/31/2003 7/31/2003 7/31/2003 7/31/2003	6 2 6 14 14	TIME <u>\$\$\$\$\$.\$\$\$\$\$</u> 0.03299 0.00953 0.09227 0.13479 0.13479	TIME <u>\$\$\$\$\$\$.\$\$\$\$\$</u> 0.02636 0.00842 0.03011 0.06489 0.06489	INPUTS 6 2 6 14 14	
	Date TRAN ID CESF CESF CESF CESF CESF	AA BB CC	1/1/1998 to 12,	7/31/2003 7/31/2003 7/31/2003 7/31/2003 7/31/2003	6 2 6 14 14 50	TIME <u>\$5\$\$\$.\$\$\$5\$</u> 0.03299 0.009527 0.13479 0.13479 3.11549	SSSSS.SSSSS 0.02636 0.03011 0.06489 0.06489 0.58109	INPUTS 6 2 6 14 14 50	
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Figure A-16 • CICS Transaction Report Example

Client Report

File name: RCLTX001.rpt

Stored procedure: None

This report provides the information contained in the CIMS Client table for the parameters selected.

Drill down: None

Parameters:

Starting and Ending Account Code

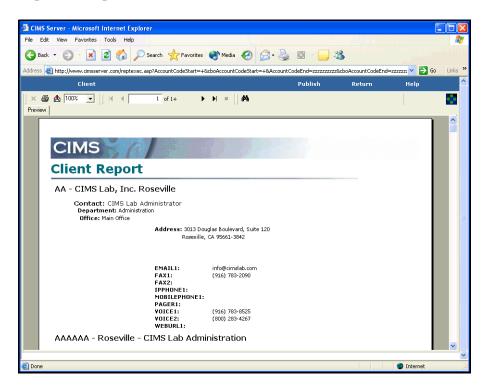


Figure A-17 • Client Report Example

Account Summary Daily Report

File name: RDAYC001.rpt

Stored Procedure: CIMSSP_Summary_Day

This report provides total daily and monthly charges by account code and rate code description for the parameters selected.

Drill down:

 Double-click a day or the charge for a day and a breakdown of charges by rate code description for the day appears.

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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Total for June 2003 Total for BB - CIMS Lab, Inc. Gibbsboro			16,097.19	×
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Figure A-18 • Account Summary Daily Report Example

Account Summary Daily 2 Report

File name: RDAYC002.rpt

Stored Procedure: CIMSSP_Summary_Day

This report is similar to the Account Summary Daily report (see page A-31). However, the month (rather than the account code) appears as the top level of the report.

Drill down:

Double-click a day or the charge for a day and a breakdown of charges for the day by account code appears. Double-click an account code and a breakdown of charges for the day by rate code description appears.

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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6/2/2003 6/3/2003			7,255.24 10,586.16	
6/4/2003			8,502.74	
6/5/2003			9,898.69	
6/6/2003			4,763.24	,
6/7/2003			8,661.15	j –
6/8/2003			7,981.29	
6/9/2003			11,785.33	
6/10/2003			14,194.24	
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Figure A-19 • Account Summary Daily 2 Report Example

DB2 Summary Report

File name: RDB2R001.rpt

Stored Procedure: CIMSSP_DB2

This report provides DB2 data for the parameters selected. This data is taken from the CIMSDetail table.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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	PT11 PT11 PT11 PT11	ZEKEMTP ZEKEMTP ZEKEMTP	DSNBIND DSNBIND	DD	13,604 13,604 13,604 24,261	2,551.68 2,551.68 2,551.68 3,820.32	1,176.39 1,176.39 1,176.39 1,176.39 1,428.10	7,326.68 7,326.68 7,326.68 66,709.14	-
	PT11 PT11 PT11	ZEKEMTP ZEKEMTP	DSNBIND	· <u> </u>	13,604 13,604 13,604	2,551.68 2,551.68 2,551.68	1,176.39 1,176.39 1,176.39	7,326.68 7,326.68 7,326.68	-
	PT11 PT11 PT11 PT11 PT11	ZEKEMTP ZEKEMTP ZEKEMTP DCBATCH	DSNBIND DSNBIND DSNUTTL	DD	13,604 13,604 13,604 24,261 72	2,551.68 2,551.68 2,551.68 3,820.32 50.92	1,176.39 1,176.39 1,176.39 1,428.10 0.00	7,326.68 7,326.68 7,326.68 66,709.14 280.08	-
	PT11 PT11 PT11 PT11 PT11 PT22 PT22	ZEKEMTP ZEKEMTP ZEKEMTP ZEKEMTP DCBATCH DCBATCH	DSNBIND DSNBIND DSNUTTL DSNUTTL	DD AA	13,604 13,604 13,604 24,261 72 72	2,551.68 2,551.68 2,551.68 3,820.32 50.92 50.92	1,176.39 1,176.39 1,176.39 1,428.10 0.00 0.00	7,326.68 7,326.68 7,326.68 66,709.14 280.08 280.08	
	PT11 PT11 PT11 PT11 PT22 PT22 PT22	ZEKEMTP ZEKEMTP ZEKEMTP ZEKEMTP DCBATCH DCBATCH DCBATCH	DSNBIND DSNBIND DSNUTTL DSNUTTL PLCAPLAN	DD AA	13,604 13,604 13,604 24,261 72 72 8	2,551.68 2,551.68 2,551.68 3,820.32 50.92 50.92 12.11	1,176.39 1,176.39 1,176.39 1,428.10 0.00 0.00 0.00	7,326.68 7,326.68 7,326.68 66,709.14 280.08 280.08 46,76	

Figure A-20 • DB2 Summary Report Example

Detail by Rate Group Report

File name: RDETR001.rpt

Stored Procedure: CIMSSP_Drilldown_by_RateGroup

This report provides total resource units used for the first eight rate code descriptions in a rate group for the parameters selected. If applicable, a total for the next highest level of the account code appears. For example, in Figure A-21, total units appear for account codes AAAAAA, AADDDD, AAFFFF, and AAMMMM. The sum of these totals appears for account code AA (the next highest level).

Drill down: None

Parameters:

- Rate Group
- Account Code Level
- Starting and Ending Account Code
- From and To Date

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	AAAAAA - Roseville - CIMS Lab Admini					
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		124 248	233.85	9.04	267.02	
	AAFFFF - Roseville - CIMS Lab Financ	9 105 231	593.33	7.87	609.62	
	AAMMMM - Roseville - Marketing & Sa	les 2 2	0.04	0.06	0.10	
	AA - CIMS Lab, Inc. Roseville	1,003 5,004	6,040.02	142.14	6,532.85	
	m)					~

Figure A-21 • Detail by Rate Group Report Example

Detail by Rate Group/Identifier Report

File name: RDETR002.rpt

Stored Procedure: CIMSSP_Drilldown_by_RateGroup_Identifier

This report is similar to the Detail by Rate Group report (see page A-34). However, the resource units are broken down by identifier value for the identifier name selected.

Drill down: None

Parameters:

- Rate Group
- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Identifier

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	Account Jobname						Batch Cred
		Started	Started		Minutes		Batch Cred
	Jobname	Started	Started		Minutes		Batch Cred
	Jobname AADDDD - Roseville - CII	Started MS Lab Developmer 2	Started	Minutes 0.14 0.25	Minutes (Initiators) 0.00 0.01	Minutes (All) 0.15 0.28	Batch Cred
	Jobname AADDDD - Roseville - CII BKALJCAT BKALJDLB BKALJRES	Started MS Lab Developmer 2 1	Started It 4 10 5	Minutes 0.14 0.25 0.12	Minutes (Initiators) 0.00 0.01 0.00	Minutes (Àll) 0,15 0,28 0,14	Batch Cred
	Jobname AADDDD - Roseville - CII BKALJCAT BKALJDLB BKALJDLB BKALJSPL	Started MS Lab Developmer 2 1 1	Started It 4 10 5 10	Minutes 0.14 0.25 0.12 0.21	Minutes (Initiators) 0.00 0.01 0.00 0.01	Minutes (Àll) 0.15 0.28 0.14 0.24	Batch Cred
	Jobname ADDDD - Roseville - CII BKALJCAT BKALJDLB BKALJSES BKALJSE1	Started MS Lab Developmen 2 1 1 1	Started It 4 10 5 10 5	Minutes 0.14 0.25 0.12 0.21 0.21	Minutes (Initiators) 0.00 0.01 0.00 0.01 0.00	Minutes (Àll) 0.15 0.28 0.14 0.24 0.07	Batch Cred
	Jobname AADDDD - Roseville - CII BKALJCAT BKALJCAT BKALJSPL BKALJSPL BKALJST2 BKALJST2	Started MS Lab Developmer 2 1 1	Started t 10 5 10 5 10	Minutes 0.14 0.25 0.12 0.21 0.06 0.12	Minutes (Initiators) 0.00 0.01 0.00 0.01 0.00 0.01	Minutes (Àll) 0.15 0.28 0.14 0.24 0.07 0.13	Batch Cred
	Jobname AADDDD - Roseville - CII BKALJCAT BKALJCBB BKALJSPL BKALJSFL BKALJST1 BKALJSY1	Started MS Lab Developmer 2 1 1 2 2	Started 4 10 5 10 5 10 4	Minutes 0.14 0.25 0.12 0.21 0.01 0.12 0.12 0.12	Minutes (Initiators) 0.00 0.01 0.00 0.01 0.00 0.01 0.00	Minutes (Åll) 0.15 0.28 0.14 0.24 0.07 0.13 0.13	Batch Cred
	Jobname AADDDD - Roseville - CII BKALJCAT BKALJCAT BKALJSFL BKALJSFL BKALJST1 BKALJST2 BKALJSY1 BKALJSY2	Started MS Lab Developmen 2 1 1 1	Started 4 10 5 10 5 10 5 10 4 10	Minutes 0.14 0.25 0.12 0.21 0.06 0.12 0.22 0.22 0.26	Minutes (Initiators) 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01	Minutes (Åll) 0.15 0.28 0.14 0.24 0.07 0.13 0.14 0.29	Batch Cred
	Jobname AADDDD - Roseville - CII BKALJCAT BKALJCAB BKALJSPL BKALJST1 BKALJST2 BKALJSY1 BKALJSY3	Started MS Lab Developmer 2 1 1 1 2 2	Started 4 10 5 10 5 10 4 10 4 10 5 10 4 10 5 10 4 10 5 10 10 5 10 10 5 10 10 5 10 10 5 10 10 10 10 10 10 10 10 10 10	0.14 0.25 0.22 0.21 0.21 0.22 0.22 0.22 0.22 0.22	Minutes (Initiators) 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00	Minutes (Åll) 0.15 0.28 0.14 0.24 0.07 0.13 0.14 0.29 0.13	Batch Cred
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	Jobname AADDDD - Roseville - CII BKALJCAT BKALJCAT BKALJSPL BKALJSPL BKALJSP1 BKALJSY1 BKALJSY2 BKALJSY3 BKALJSY3 BKALJSY5	Started MS Lab Developmer 2 1 1 1 2 2 2	Started t 10 5 10 5 10 4 4 9 9 9	Minutes 0.14 0.25 0.12 0.21 0.06 0.12 0.12 0.12 0.26 0.13 0.25	Minutes (Initiators) 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01	Minutes (Åll) 0.15 0.28 0.14 0.24 0.07 0.13 0.14 0.29 0.13	Batch Cred
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	Jobname AADDDD - Roseville - CII BKALJCAT BKALJCB BKALJSFL BKALJSFL BKALJSF1 BKALJSY1 BKALJSY2 BKALJSY3 BKALJSY4 BKALJSY3 BKALJSY5 BKFVKPD1	Started <u>MS Lab Developmer</u> 2 1 1 2 2 2 1 1 1 1 1 1	Started 4 10 5 10 5 10 4 10 4 9 9 9 10	Minutes 0.14 0.25 0.12 0.21 0.26 0.12 0.12 0.12 0.12 0.12 0.12 0.13 0.25 0.26 0.25 0.26 0.02	Minutes (Initiators) 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.01 0.01 0.01	Minutes (Àll) 0,15 0,28 0,14 0,24 0,07 0,13 0,14 0,29 0,14 0,29 0,14 0,29 0,30 0,03	Batch Cred
	Jobname AADDDD - Roseville - CII BKALJCAT BKALJCAT BKALJSPL BKALJSPL BKALJSPL BKALJSY1 BKALJSY2 BKALJSY3 BKALJSY3 BKALJSY3 BKALJSY5 BKFWKP01 DAA03 DAA27 DEALLOC	Started MS Lab Developmer 2 1 1 2 2 2 2 1 1 1 2 2 2 2 2 2 2 1 1 2 2 2 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Started it 4 10 5 10 5 10 4 4 9 9 9 10 4 4 4 9 9 10 4 4 4 4 4 4 4 4 4 4 4 4 4	Minutes 0.14 0.25 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	Minutes (Initiators) 0.00 0.01 0.00 0.01 0.00 0.01 0.01 0.0	Minutes (Àll) 0.15 0.28 0.28 0.24 0.07 0.13 0.14 0.29 0.14 0.29 0.14 0.29 0.14 0.29 0.14 0.30 0.30 0.03	Batch Cred

Figure A-22 • Detail by Rate Group/Identifier Report Example

Detail Rate Codes by Identifiers

File name: RDRIR001.rpt

Stored Procedure: CIMSSP_Detail_I5_R5

This report shows resource units consumed for a maximum of five rate codes and five identifiers.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Rate Codes (5 maximum)
- Identifiers (5 maximum)

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rce Kange: 11/ 1/ 20	04 (0 11/ 30/ 2004					
OBNAME	WORK ID	SYSTEM ID	Mainframe Jobs Started	Mainframe Steps Started	Mainframe Cpu Minutes	
LSJPRMI	STC	CIMD	1.00	1.00	0.04	
PXAS	STC	CIMD	8.00	8.00	0.04	
PXAS IMS02	STC TSO	CIMD	8.00 13.00	8.00 13.00	0.00	
PXAS IMS02 IMS02RM	STC TSO JES2	CIMD CIMD CIMD	8.00 13.00 3.00	8.00 13.00 21.00	0.00	
PXAS IMS02 IMS02RM IMS02XX	STC TSO JES2 JES2	CIMD CIMD CIMD CIMD	8.00 13.00 3.00 10.00	8.00 13.00 21.00 19.00	0.00	
PXAS IMSO2 IMSO2RM IMSO2XX IMSO3	STC TSO JES2 JES2 TSO	CIMD CIMD CIMD CIMD CIMD	8.00 13.00 3.00 10.00 11.00	8.00 13.00 21.00 19.00 11.00	0.00 1.29 1.70	
PXAS IMSO2 IMSO2RM IMSO2XX IMSO3 IMSO3AL	STC TSO JES2 JES2 TSO JES2	CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 3.00 10.00 11.00 32.00	8.00 13.00 21.00 19.00 11.00 42.00	0.00 1.29 1.70 0.84	
PXAS IMS02 IMS02RM IMS02XX IMS03 IMS03AL IMS03CS	STC TSO JES2 JES2 TSO JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 3.00 10.00 11.00 32.00 4.00	8.00 13.00 21.00 19.00 11.00 42.00 2.00	0.00 1.29 1.70 0.84 0.01	
PXAS IMS02 IMS02RM IMS02XX IMS03 IMS03AL IMS03CS IMS03CS IMS03GI	STC TSO JES2 JES2 TSO JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 11.00 32.00 4.00 1.00	8.00 13.00 21.00 19.00 11.00 42.00 2.00 1.00	0.00 1.29 1.70 0.84 0.01 0.00	
DXAS IMSO2 IMSO2RM IMSO2XX IMSO3AL IMSO3AL IMSO3GI IMSO3GI IMSO3GN	STC TSO JES2 JES2 TSO JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 11.00 32.00 4.00 1.00 22.00	8.00 13.00 21.00 19.00 11.00 42.00 2.00 1.00 37.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75	
PXAS IMS02 IMS02RM IMS03XX IMS03AL IMS03AL IMS03GI IMS03GI IMS03GN IMS03TM	STC TSO JES2 JES2 TSO JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 3.00 10.00 11.00 32.00 4.00 1.00 22.00	8.00 13.00 21.00 19.00 11.00 42.00 2.00 1.00 37.00 33.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75 0.56	
PXAS IMS02 IMS02RM IMS03XX IMS03AL IMS03GS IMS03GI IMS03GN IMS03TM IMS03UN	STC TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 3.00 11.00 32.00 4.00 1.00 22.00 19.00 2.00	8.00 13.00 21.00 19.00 11.00 42.00 2.00 1.00 37.00 33.00 4.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75	
9XAS IMS02RM IMS02RM IMS03XX IMS03AL IMS03GI IMS03GI IMS03GN IMS03GN IMS03UN IMS03UN IMS04	STC TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 11.00 32.00 4.00 22.00 19.00 2.200 6.00	8.00 13.00 21.00 19.00 42.00 2.00 1.00 37.00 33.00 4.00 6.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75 0.56 0.02	
PXAS IMS02 IMS02RM IMS02XX IMS033L IMS03CS IMS03GI IMS03GI IMS03GI IMS03UN IMS04 IMS0401	STC TSO JE02 JE02 JE02 JE02 JE02 JE02 JE02 JE02	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 32.00 4.00 1.00 22.00 19.00 2.00 6.00 2.00	8.00 13.00 21.00 19.00 42.00 1.00 37.00 33.00 4.00 6.00 12.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75 0.56 0.02 0.28	
2XAS IMS02RM IMS02RM IMS02XX IMS03AL IMS03AL IMS03GN IMS03GN IMS03UN IMS0401 IMS0441 IMS0447	STC TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 11.00 4.00 22.00 19.00 22.00 6.00 6.00 2.00	8.00 13.00 21.00 19.00 42.00 37.00 37.00 37.00 4.00 6.00 12.00 24.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75 0.02 0.28 0.24	
PXAS IMS02 IMS02RM IMS02XX IMS03AL IMS03AL IMS03GI IMS03GI IMS03GN IMS0401 IMS0401 IMS0447 IMS0449	STC TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 4.00 1.00 22.00 19.00 2.00 6.00 2.00 4.00 4.00 2.00	8.00 13.00 21.00 19.00 42.00 1.00 37.00 33.00 4.00 6.00 12.00 24.00 5.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75 0.26 0.28 0.24 0.28 0.24	
PXAS IMS022M IMS02XM IMS03AL IMS03AL IMS03GN IMS03GN IMS03GN IMS03UN IMS0401 IMS0447 IMS0449 IMS0441	STC TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 11.00 32.00 4.00 22.00 19.00 2.00 6.00 2.00 4.00 2.00 1.00 2.00	8.00 13.00 19.00 42.00 1.00 37.00 33.00 4.00 6.00 24.00 5.00 4.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75 0.56 0.02 0.28 0.24 0.06 0.13	
DXAS IMS02 IMS02RM IMS02XX IMS03 IMS03AL IMS03GN IMS03GN IMS03GN IMS0401 IMS0441 IMS0449 IMS0449 IMS0443	STC TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 10.00 4.00 1.00 22.00 19.00 2.00 4.00 2.00 4.00 2.00 1.00 2.00 2.00 2.00 2.00 2.00 2	8.00 13.00 19.00 42.00 37.00 33.00 4.00 24.00 24.00 5.00 4.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75 0.26 0.28 0.24 0.06 0.13 0.05	
PXAS IMS02 IMS02XX IMS033 IMS03AL IMS03GN IMS03GN IMS03GN IMS0401 IMS0401 IMS0491 IMS0493 IMS0494	STC TSO JES2 JES2 TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 11.00 4.00 22.00 22.00 2.00 2.00 4.00 2.00 1.00 2.00 4.00 2.00 4.00 2.00 4.00 2.00	8.00 13.00 19.00 42.00 37.00 37.00 37.00 42.00 1.00 4.00 4.00 12.00 24.00 5.00 4.00 4.00 10.00 10.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75 0.56 0.02 0.22 0.24 0.66 0.13 0.34 0.35	
DXAS IMS02 IMS02RM IMS02XX IMS03 IMS03AL IMS03GN IMS03GN IMS03GN IMS0401 IMS0441 IMS0449 IMS0449 IMS0443	STC TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	8.00 13.00 10.00 10.00 4.00 1.00 22.00 19.00 2.00 4.00 2.00 4.00 2.00 1.00 2.00 2.00 2.00 2.00 2.00 2	8.00 13.00 19.00 42.00 37.00 33.00 4.00 24.00 24.00 5.00 4.00	0.00 1.29 1.70 0.84 0.01 0.00 0.75 0.26 0.28 0.24 0.06 0.13 0.05	

Figure A-23 • Detail Rate Codes by Identifiers Report Example

Detail Rate Codes by Identifiers/Account

File name: RDRIR002.rpt

Stored Procedure: CIMSSP_Detail_I5_R5

This report shows resource units consumed by account code for a maximum of five rate codes and five identifiers.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Rate Codes (5 maximum)
- Identifiers (5 maximum)

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	WORK ID	SYSTEM ID	<u>Mainframe</u> Jobs Started	<u>Maintrame</u> Steps Started	<u>Mainframe Cpu</u> <u>Minutes</u>	
CX - Credit Card			Jobs Started	Steps Started	<u>Mainframe Cpu</u> <u>Minutes</u>	
CX - Credit Card LASSOO	тѕо	CIMD	<u>Jobs Started</u> 10.00	Steps Started	Minutes	
CX - Credit Card LASSOO LASSOOO	TSO JES2	CIMD	<u>Jobs Started</u> 10.00	Steps Started 10.00 1.00	Minutes 0.00	
C X - Credit Card LASSOO LASSOOO LASSOOI	TSO JES2 JES2	CIMD CIMD CIMD	Jobs Started 10.00 2.00	<u>Steps Started</u> 10.00 1.00 8.00	<u>Minutes</u> 0.00 0.26	
CX - Credit Card LASSOO LASSOOO LASSOO1 LASSOO2	TSO JES2 JES2 JES2	CIMD CIMD CIMD CIMD	Jobs Started 10.00 2.00 4.00	Steps Started 10.00 1.00 8.00 7.00	<u>Minutes</u> 0.00 0.26 0.14	
CX - Credit Card ASSOO ASSOO1 ASSOO2 ASSOO3	TSO JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 2.00 4.00 3.00	<u>Steps Started</u> 10.00 1.00 8.00 7.00 15.00	0.00 0.26 0.14 0.52	
CX - Credit Card ASS00 ASS000 ASS001 ASS002 ASS003 ASS003	TSO JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD	Jobs Started 10.00 2.00 4.00 3.00 5.00	<u>Steps Started</u> 10.00 1.00 8.00 7.00 15.00 17.00	0.00 0.26 0.14 0.52 0.57	
CX - Credit Card ASS00 ASS001 ASS002 ASS003 ASS004 ASS005	TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 2.00 4.00 3.00 5.00 3.00	<u>Steps Started</u> 10.00 1.00 8.00 7.00 15.00 17.00 14.00	0.00 0.26 0.14 0.52 0.57 0.69	
CX - Credit Card ASS00 ASS000 ASS001 ASS002 ASS003 ASS004 ASS005 ASS006	TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 2.00 4.00 3.00 5.00 3.00 2.00	<u>Steps Started</u> 10.00 1.00 8.00 7.00 15.00 17.00 14.00 4.00	0.00 0.26 0.14 0.52 0.57 0.69 0.36	
CX - Credit Card ASS00 ASS001 ASS002 ASS003 ASS004 ASS005 ASS006 ASS006	TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	10.00 2.00 4.00 3.00 3.00 2.00 2.00	<u>Steps Started</u> 10.00 1.00 8.00 7.00 15.00 14.00 4.00 16.00	0.00 0.26 0.14 0.52 0.57 0.69	
CX - Credit Card ASS00 ASS001 ASS002 ASS003 ASS004 ASS004 ASS006 ASS006 ASS007 ASS01	TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	10.00 10.00 4.00 3.00 3.00 3.00 2.00 10.00	10.00 1.00 8.00 7.00 15.00 17.00 14.00 14.00 16.00 10.00	Minutes 0.00 0.26 0.14 0.52 0.57 0.69 0.36 0.33	
CX - Credit Card ASS00 ASS001 ASS002 ASS003 ASS004 ASS005 ASS006 ASS006 ASS007 ASS01 ASS01	TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 2.00 4.00 3.00 3.00 2.00 2.00 10.00 1.00	10.00 1.00 8.00 7.00 15.00 17.00 14.00 16.00 16.00 10.00 12.00	Minutes 0.00 0.26 0.14 0.52 0.57 0.69 0.36 0.33 0.14	
X - Credit Card ASS00 ASS001 ASS002 ASS003 ASS004 ASS005 ASS005 ASS006 ASS007 ASS01 ASS01 ASS011	TS0 JE52 JE52 JE52 JE52 JE52 JE52 JE52 JE52	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 4.00 3.00 3.00 2.00 10.00 1.00	10.00 1.00 8.00 7.00 15.00 14.00 4.00 16.00 10.00 12.00 4.00	Minutes 0.00 0.26 0.14 0.52 0.57 0.69 0.36 0.33 0.14 0.13	
X - Credit Card ASS00 ASS000 ASS002 ASS003 ASS004 ASS005 ASS005 ASS005 ASS007 ASS010 ASS011 ASS012	TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 4.00 3.00 5.00 2.00 1.00 1.00 1.00 1.00	10.00 1.00 8.00 15.00 14.00 14.00 16.00 10.00 12.00 4.00 4.00	Minutes 0.00 0.26 0.14 0.57 0.69 0.36 0.33 0.14 0.13 0.14	
X - Credit Card ASS00 ASS00 ASS001 ASS002 ASS004 ASS004 ASS005 ASS005 ASS006 ASS006 ASS007 ASS011 ASS011 ASS012 ASS013	TS0 JE52 JE52 JE52 JE52 JE52 JE52 JE52 JE52	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 2.00 4.00 3.00 3.00 2.00 10.00 10.00 1.00 1.00 4.00	Steps Started 10.00 1.00 8.00 7.00 17.00 14.00 14.00 16.00 10.00 12.00 4.00 4.00 4.00 20.00	Minutes 0.00 0.26 0.14 0.52 0.57 0.69 0.36 0.33 0.14 0.36 0.37 0.69 0.36 0.37 0.69 0.36 0.37 0.44 0.57	
X - Credit Card ASS00 ASS00 ASS001 ASS002 ASS004 ASS004 ASS005 ASS006 ASS007 ASS005 ASS010 ASS011 ASS012 ASS012 ASS013 ASS014	TSO JE52 JE52 JE52 JE52 JE52 JE52 JE52 JE52	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	2005 Started 10.00 2.00 3.00 5.00 2.00 1.00 1.00 1.00 1.00 4.00 4.00	Steps Started 10.00 1.00 8.00 7.00 15.00 14.00 4.00 16.00 12.00 4.00 16.00 16.00 16.00 16.00	Minutes 0.00 0.26 0.14 0.52 0.69 0.36 0.33 0.14 0.13 0.14 0.52 0.36 0.33 0.14 0.13 0.14 0.56	
X - Credit Card ASS00 ASS00 ASS001 ASS002 ASS004 ASS004 ASS005 ASS006 ASS005 ASS006 ASS017 ASS011 ASS012 ASS012 ASS013 ASS014 ASS015	TS0 JE52 JE52 JE52 JE52 JE52 JE52 JE52 JE52	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 4.00 3.00 3.00 2.00 10.00 10.00 1.00 1.00 4.00 3.00 3.00 2.00 1.00 3.00	<u>Steps Started</u> 10.00 1.00 8.00 7.00 15.00 14.00 14.00 16.00 12.00 4.00 4.00 4.00 12.00 12.00 12.00 15.00 12.00 12.00 15.00 12.00 15.00 12.00 12.00 12.00 15.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 13.00 14.00 15.00 14.00 15.00 15.00 14.00 15.00 15.00 16.00 10.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 14.00 12.00 12.00 14.00 12.00 16.00 10.00 12.00 16.00 16.00 16.00 10.00	Minutes 0.00 0.26 0.14 0.52 0.57 0.69 0.36 0.33 0.14 0.13 0.14 0.52 0.56 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.37 0.14 0.68 0.56 1.23	
X - Credit Card ASS00 ASS001 ASS001 ASS002 ASS003 ASS003 ASS005 ASS005 ASS007 ASS010 ASS010 ASS011 ASS012 ASS012 ASS013 ASS015 ASS015	TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	2005 Started 10.00 2.00 4.00 3.00 3.00 2.00 1.00 1.00 1.00 1.00 4.00 4.00 4.00 3.00 1.0	Steps Started 10.00 1.00 8.00 7.00 15.00 17.00 14.00 16.00 10.00 12.00 4.00 16.00 12.00 4.00 16.00 18.00	Minutes 0.00 0.26 0.14 0.52 0.69 0.36 0.33 0.14 0.13 0.14 0.52 0.36 0.33 0.14 0.13 0.14 0.56	
X - Credit Card ASS00 ASS001 ASS001 ASS002 ASS003 ASS003 ASS005 ASS005 ASS007 ASS010 ASS010 ASS011 ASS012 ASS012 ASS013 ASS015 ASS015	TS0 JE52 JE52 JE52 JE52 JE52 JE52 JE52 JE52	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 4.00 3.00 3.00 2.00 10.00 10.00 1.00 1.00 4.00 3.00 3.00 2.00 1.00 3.00	<u>Steps Started</u> 10.00 1.00 8.00 7.00 15.00 14.00 14.00 16.00 12.00 4.00 4.00 4.00 12.00 12.00 12.00 15.00 12.00 12.00 15.00 12.00 15.00 12.00 12.00 12.00 15.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 13.00 14.00 15.00 14.00 15.00 15.00 14.00 15.00 15.00 16.00 10.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 14.00 12.00 12.00 14.00 12.00 16.00 10.00 12.00 16.00 16.00 16.00 10.00	Minutes 0.00 0.26 0.14 0.52 0.57 0.69 0.36 0.33 0.14 0.13 0.14 0.52 0.56 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.37 0.14 0.68 0.56 1.23	
CX - Credit Card ASS00 ASS001 ASS002 ASS003 ASS004 ASS004 ASS006 ASS006 ASS007 ASS01	TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	2005 Started 10.00 2.00 4.00 3.00 3.00 2.00 1.00 1.00 1.00 1.00 4.00 4.00 4.00 3.00 1.0	Steps Started 10.00 1.00 8.00 7.00 15.00 17.00 14.00 16.00 10.00 12.00 4.00 16.00 12.00 4.00 16.00 18.00	Minutes 0.00 0.26 0.14 0.52 0.57 0.69 0.36 0.33 0.14 0.13 0.14 0.52 0.56 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.37 0.14 0.68 0.56 1.23	
X - Credit Card ASS00 ASS000 ASS002 ASS003 ASS003 ASS004 ASS005 ASS005 ASS005 ASS007 ASS010 ASS010 ASS011 ASS012 ASS013 ASS014 ASS015 ASS015 ASS015 ASS016	TSO JES2 JES2 JES2 JES2 JES2 JES2 JES2 JES2	CIMD CIMD CIMD CIMD CIMD CIMD CIMD CIMD	<u>Jobs Started</u> 10.00 4.00 3.00 3.00 2.00 10.00 10.00 1.00 4.00 3.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Steps Started 10.00 10.00 10.00 10.00 10.00 15.00 17.00 14.00 16.00 12.00 4.00 12.00 16.00 12.00 4.00 4.00 4.00 4.00 16.00 16.00 16.00 11.00	Minutes 0.00 0.26 0.14 0.52 0.69 0.36 0.33 0.14 0.13 0.14 0.52 0.36 0.33 0.14 0.56 0.32 0.14 0.56 0.33 0.14 0.56 0.32 0.35	

Detail Rate Codes by Identifiers/Account Report Example

MS Exchange 2000 Resource Report

File name: REX2R001.rpt

Stored Procedure: CIMSSP_Detail_Resource

This report provides Exchange 2000 Server data for the parameters selected. This data is taken from the CIMSDetail table.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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) 🖸 🚺 🚺 1 of 1+ 🖸 🕖						
ROCA-MAIL1		e 2000 Resource	Report			
	Account Range: All J Date Range: 11/1/2	Accounts				
	SERVER	NT USER NAME	ACCOUNT	EMAILS SENT	BYTES SENT	
	ROCA-MAIL1	administrator@cim slab.com	WTX	0	0	
	ROCA-MAIL1	al.marley@cimslab .com	WTX	0	0	
	ROCA-MAIL1	ann.wilson@cimsla b.com	WTX	0	0	
	ROCA-MAIL1	bruce.clayton@cim slab.com	RTM	0	0	
	ROCA-MAIL1	carolyn	COM	13	39,790	
	ROCA-MAIL1	carolyn.lynch@cim slab.com	COM	0	0	
	ROCA-MAIL1	cynthia	COM	325	2,797,298	
	ROCA-MAIL1	cynthia.murayama @cimslab.com	COM	0	0	
	ROCA-MAIL1	deborah	DEP	45	27,784,419	
	ROCA-MAIL1	deborah.sparks@ci mslab.com	DEP	0	0	
	ROCA-MAIL1	del	DEP	18	2,212,887	
	ROCA-MAIL1	del.ence@cimslab. com	DEP	0	0	
	ROCA-MAIL1	gary	ATM	37	1,579,499	
	ROCA-MAIL1	gary.miller@cimsla b.com	ATM	0	0	

Figure A-24 • MS Exchange 2000 Resource Report Example

Invoice by Account Level V2 Report

File name: RINVC001.rpt

See Invoice by Account Level Report (Crystal Reports) on page A-48.

Alternate Invoice Report

File name: RINVC002.rpt

Stored Procedure: CIMSSP_Summary

This report provides charges by account code and rate code description for the parameters selected. An optional graph showing total expenses by account code is also included.

Drill down:

- Double-click a bar on the graph and the invoice appears.
- Click the units for a rate and a new page appears to enable a drill down of units by identifier. This page invokes the report Invoice Drill Down for Rate (see page A-15), Invoice Drill Down for Units by Date (see page A-17), or Multilevel Drill Down for Units (see page A-18).
- Double-click a rate code description or its corresponding rate or charge and the next lower level of the account structure appears. This drill down can be continued through the account structure.

- Account Code Level
- Invoice Number
- Display Graph
- Starting and Ending Account Code
- From and To Date

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CIMS Lab, Inc. Roseville				,	^
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LIMS Lab, Inc. Services	Invoice			voice No. 5	
		Billing	Period: 6/1/20031	to 6/30/2003	
	Big Time Company				
	Big Time Company Corporate Headquarters				
	Corporate Headquarters 3013 Douglas Blvd.				
	Corporate Headquarters				
	Corporate Headquarters 3013 Douglas Blvd. Suite 120				
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661	Units	Rate	Charge	
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661 EE - CIMS Lab, Inc. Services	<u>Units</u> 41	<u>Rate</u> 2.5000000	<u>Charge</u> 102.50	
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661 EE - CIMS Lab, Inc. Services OS/390 Jobs Started OS/390 Steps Started	41 16	2. 50000000 0. 50000000	102.50 8.00	
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661 EE - CIMS Lab, Inc. Services OS/390 Jobs Started OS/390 Steps Started OS/390 Cpu Minutes	41 16 0.01	2. 5000000 0. 5000000 20. 0000000	102.50 8.00 0.12	
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661 EE - CIMS Lab, Inc. Services OS/390 Jobs Started OS/390 Steps Started OS/390 Cpu Minutes (Initiators)	41 16 0.01 0.01	2. 50000000 0. 50000000 20. 00000000 0. 00000000	102.50 8.00 0.12 0.00	
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661 EE - CIMS Lab, Inc. Services OS/390 Jobs Started OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes OS/390 Cpu Minutes (All)	41 16 0.01 0.01 0.01	2.5000000 0.5000000 20.0000000 0.0000000 0.0000000	102.50 8.00 0.12 0.00 0.00	
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661 EE - CIMS Lab, Inc. Services OS/390 Jobs Started OS/390 Steps Started OS/390 Cpu Minutes (Initiators) OS/390 Cpu Minutes (All) Total StOs	41 16 0.01 0.01 36	2.5000000 0.5000000 20.0000000 0.0000000 0.00000000 0.0000000	102.50 8.00 0.12 0.00 0.00 0.00	
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661 EE - CIMS Lab, Inc. Services OS/390 Jobs Started OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes (Initiators) OS/390 Cpu Minutes (All) Total SIOs	41 16 0.01 0.01 36 36	2.500000 0.5000000 20.0000000 0.0000000 0.0000000 0.0000 /M 0.2500 /M	102.50 8.00 0.12 0.00 0.00 0.00 0.00	
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661 EE - CIMS Lab, Inc. Services OS/390 Jobs Started OS/390 Steps Started OS/390 Cpu Minutes (Initiators) OS/390 Cpu Minutes (All) Total StOs	41 16 0.01 0.01 36	2.5000000 0.5000000 20.0000000 0.0000000 0.00000000 0.0000000	102.50 8.00 0.12 0.00 0.00 0.00	
	Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661 EE - CIMS Lab, Inc. Services OS/390 Jobs Started OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes (Initiators) OS/390 Cpu Minutes (All) Total SIOs Disk SIOs Input Records	41 16 0.01 0.01 36 36 2	2.5000000 0.5000000 0.0000000 0.0000000 0.0000000 0.0000 /M 0.2500 /M 1.0000000 /M	102.50 8.00 0.12 0.00 0.00 0.00 0.01 0.01	

Figure A-25 • Alternate Invoice Report Example

Account Total Invoice Report

File name: RINVC003.rpt

Stored Procedure: CIMSSP_Account_Summary

This report provides the total charges by each level of the account code structure for the parameters selected.

Drill down:

 Click the Invoice link and a complete invoice for the account code level appears (see Invoice Report on page A-44).

Parameters:

- Starting and Ending Account Code
- From and To Date

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CIMS Lab, Inc. Roseville				
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CIMS Lab, Inc. Laurel		and the second se		
CIMS Lab, Inc. International	CIMS Account Total Inv	oice		
CIMS Lab, Inc. Services	CIMS Account Total Inv	once		
	Account Range: All			
	Date Range: 6/1/2003 to 6/30/2003			
	Account	Invoice Amour	it .	
	Account	Invoice Amour		
	CIMS Lab, Inc. Gibbsboro	16,889.70	<u>Invoice</u>	
	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development	16,889.70 15,114.31	Invoice Invoice	
	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development Gary	16,889.70 15,114.31 766.43	Invoice Invoice Invoice	
	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development	16,889.70 15,114.31	Invoice Invoice Invoice Invoice	
	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development Gary BBDDDDGGblackd.exe blac	16,889.70 15,114.31 766.43 20.74	Invoice Invoice Invoice	
	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development - Gary BBDDDDGGblackd.exe blac BBDDDDGGblackd.exe blac BBDDDDGGblacks.exe dlih	16,889.70 15,114.31 766.43 20.74 52.82	Invoice Invoice Invoice Invoice Invoice	
	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development - Gary - BBDDDDGGblackd.exe blac BBDDDDGGblackice.exe dla BBDDDDGGdlhost.exe dlih	16,889.70 15,114.31 766.43 20,74 52.82 388.58 22.04	Invoice Invoice Invoice Invoice Invoice Invoice	
	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development - Gary BBDDDDGGblackd.exe blac BBDDDDGGblackice.exe blac BBDDDDGGdlihost.exe dlih BBDDDDGGgarym garym	16,889.70 15,114.31 766.43 20.74 52.82 388.58 22.04 64.52	Invoice Invoice Invoice Invoice Invoice Invoice Invoice	
	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development - Gory BBDDDDGGblackd.exe blac BBDDDDGGGlkike.exe blac BBDDDDGGGlkikost.exe dilh BBDDDDGGGRYM garym BBDDDDGGRWPR0C*	16,889.70 15,114.31 766.43 20.74 52,82 388.58 22.04 64.52 0.34	Invoice Invoice Invoice Invoice Invoice Invoice Invoice	
	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development - Gary BBDDDDGGblackd.exe blac BBDDDDGGblackice.exe blac BBDDDDGGblackice.exe dllh BBDDDDGGGIXLMPROC* BBDDDDGGRLMPROC* BBDDDDGGRLMPROC* BBDDDDGGRLMPROC*	16,889.70 15,114.31 766.43 20.74 52,82 388.58 22.04 64.52 0.34	Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice	
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	CIMS Lab, Inc. Gibbsboro - Gibbsboro - CIMS Lab Development - Gary - BBDDDDGGblackd.exe blac BBDDDDGGglarym garym BBDDDDGGgarym garym BBDDDDGGGIlsrv.exe dlih BBDDDDGGGIlsrv.exe llss BBDDDDGGGlsrv.exe llss BBDDDDGGGlsph /usr BBDDDDGGralph / Jusr BBDDDDGGralph /usr BBDDDDGGralph adm	16,889.70 15,114.31 766.43 28.74 52.82 388.58 22.04 64.52 0.34 0.00 0.00 0.24 0.12	Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice	
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Figure A-26 • Account Total Invoice Report Example

Invoice with Budget Report

File name: RINVC004.rpt

Stored Procedure: CIMSSP_LineItem_Budget

This report provides charges by account code, rate code description, and rate group for the parameters selected. This report also includes a Budget and Variance field for the calendar period selected and YTD Charges, Budget, and Variance fields.

Drill down:

- Click the units for a rate and a new page appears to enable a drill down of units by identifier. This page invokes the report Invoice Drill Down for Rate (see page A-15), Invoice Drill Down for Units by Date (page A-17), or Multilevel Drill Down for Units (see page A-18).
- Click the rate group name in the Total line and a new page appears to enable a drill down of charges by identifier. This page invokes the report Invoice Drill Down for Rate Group (see page A-12) or Invoice Drill Down for Rate Group by Date (see page A-14).

- Account Code Level
- Calendar Period
- Invoice Number
- Starting and Ending Account Code

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Figure A-27 • Invoice with Budget Report Example

Invoice Report

File name: RINVC006.rpt

Stored Procedure: None

This report provides charges by account code, rate code description, and rate group for the parameters selected. This report is invoked by clicking the **Invoice** link for the account code in the following reports.

- Account Total Invoice (see page A-39)
- Top Cost (see page A-64)
- Top 10 Bar Graph (see page A-66)
- Top 10 Pie Chart (see page A-68)

Drill down:

- Click the units for a rate and a new page appears to enable a drill down of units by identifier. This page invokes the report Invoice Drill Down for Rate (see page A-15), Invoice Drill Down for Units by Date (page A-17), or Multilevel Drill Down for Units (see page A-18).
- Click the rate group name in the Total line and a new page appears to enable a drill down of charges by identifier. This page invokes the report Invoice Drill Down for Rate Group (see page A-12) or Invoice Drill Down for Rate Group by Date (see page A-14).

Parameters:

All parameters are supplied by the report from which the invoice is invoked.

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BBDDDD OS/390 Jobs Started OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes (Initiators) OS/390 Cpu Minutes (All)		508 1,378 58.79 1.11	2. 50000000 0. 50000000 20. 00000000 0. 00000000	1,270.00 689.00 1,175.84 0.00 0.00	
BBDDDD OS/390 Jobs Started OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes (Initiatore) OS/390 Cpu Minutes (All) OS/390 Batch charges		508 1,378 58.79 1.11 60.74	2.50000000 0.50000000 20.00000000 0.00000000 0.00000000	1,270.00 689.00 1,175.84 0.00 0.00 3,134.84	

Figure A-28 • Invoice Report Example

Invoice by Account Level Report (SQL Server Reporting Services)

File name: RINVC007.rdl

Stored Procedure: CIMSSP_Summary

This key report provides charges by account code, rate group, and rate code description for the parameters selected. An optional graph showing total expenses by account code is also included.

Drill down:

- Double-click a bar on the graph and the invoice appears.
- Click the units for a rate and a new page appears to enable a drill down of units by identifier. This page invokes the report Multilevel Drill Down for Units (see page A-18).
- Click the rate group name and a new page appears to enable a drill down of charges by identifier. This page invokes the report Invoice Drill Down for Rate Group (see page A-12) or Invoice Drill Down for Rate Group by Date (see page A-14).
- Double-click a rate code description and the next lower level of the account structure appears. This drill down can be continued through the account structure.

- Account Code Level
- Invoice Number
- Display Graph
- Starting and Ending Account Code
- From and To Date

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Figure A-29 • Invoice by Account Level Report Example (Reporting Services)

Invoice by Account Level Report (Crystal Reports)

File name: RINVC007.rpt

Stored Procedure: CIMSSP_Summary

This key report provides charges by account code, rate group, and rate code description for the parameters selected. An optional graph showing total expenses by account code is also included.

Drill down:

- Double-click a bar on the graph and the invoice appears.
- Click the units for a rate and a new page appears to enable a drill down of units by identifier. This page invokes the report Invoice Drill Down for Rate (see page A-15), Invoice Drill Down for Units by Date (page A-17), or Multilevel Drill Down for Units (see page A-18).
- Click the rate group name and a new page appears to enable a drill down of charges by identifier. This page invokes the report Invoice Drill Down for Rate Group (see page A-12) or Invoice Drill Down for Rate Group by Date (see page A-14).
- (Invoice by Account Level V2 only) Double-click a rate code description or its corresponding rate or charge and the next lower level of the account structure appears. This drill down can be continued through the account structure.

- Account Code Level
- Invoice Number
- Display Graph
- Starting and Ending Account Code
- From and To Date

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Figure A-30 • Invoice by Account Level Report Example (Crystal Reports)

Invoice with Shifts Report

File name: RINVC009.rpt

Stored Procedure: CIMSSP_Summary_Shift

If the CIMSSummary table contains multiple shift codes for a rate code, this report provides charges by account code, rate group, and rate code description broken down by shift for the parameters selected.

Drill down:

- Double-click a bar on the graph and the invoice appears.
- Click the units for a rate and a new page appears to enable a drill down of units by identifier. This page invokes the report Invoice Drill Down for Rate (see page A-15), Invoice Drill Down for Units by Date (page A-17), or Multilevel Drill Down for Units (see page A-18).
- Click the rate group name in the Total line and a new page appears to enable a drill down of charges by identifier. This page invokes the Invoice Drill Down for Rate Group (see page A-12) or Invoice Drill Down for Rate Group by Date (see page A-14) report.

- Account Code Level
- Invoice Number
- Display Graph
- Starting and Ending Account Code
- From and To Date

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	The Big Time Company Corporate Headquarters 3013 Doualas Blvd. Roseville, CA 95661 United States of America <u>AA - CIMS Lab, Inc. Roseville</u> CICS Transaction Minutes Shift 1 Shift 2	Units	Rate	Charge 0.34 0.31 0.03
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	The Bia Time Company Corporate Headquarters 3013 Doualas Blvd. Roseville, CA 95661 United States of America <u>AA - CIMS Lab, Inc. Roseville</u> CICS Transaction Minutes Shift 1 Shift 2 CICS Cope Minutes Shift 1 Shift 2 CICS Transactions	<u>Units</u> 1.73 1.66 0.06 0.17	Rote 0.1800000 0.01800000 30.0000000 25.0000000	Charge 0.34 0.31 0.03 5.82 1.69 4.13 3.27
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	The Bia Time Company Corporate Headquarters 3D13 Doualas Blvd. Roseville, CA 95661 United States of America AA - CIMS Lab, Inc. Roseville CICS Transaction Minutes Shift 1 Shift 2 CICS Transactions Shift 2	Units 1.73 1.66 0.06 0.17 1.61	Rate 0.1800000 0.01800000 30.0000000 25.0000000 0.01500000	Charge 0.34 0.31 0.03 5.82 1.69 4.13 3.27 2.42 0.65

Figure A-31 • Invoice with Shifts Report Example

Run Total Invoice Report

File name: RIVTC001.rpt

Stored Procedure: CIMSSP_Summary

This report provides total charges by rate group and rate code description for the parameters selected.

Drill down:

Double-click a rate code description or its corresponding units, rate, or charge and and a breakdown of data by account code appears.

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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Figure A-32 • Run Total Invoice Report Example

Run Total Percent Report

File name: RIVTC002.rpt

Stored Procedure: CIMSSP_Summary

This report is the same as the Run Total Invoice report (see page A-52) except that the drill down includes percent total by account code in addition to units, rate, and charge.

Drill down:

 Double-click a rate code description or its corresponding units, rate, or charge and and a breakdown of data by account code appears.

You can set the number of account codes that appear in the drill down using the TopN parameter. For example, if you type 2 as the TopN parameter, only the account codes with the highest and second highest charges appear when you drill down. If you leave the TopN parameter blank, all account codes for the parameters selected appear.

- Account Code Level
- TopN
- Starting and Ending Account Code
- From and To Date

Run Total Rate Group Percent Report

File name: RIVTC003.rpt

Stored Procedure: CIMSSP_Summary

This report provides charges and percentage by rate groups for the parameters selected.

Drill down:

 Double-click the charge or percentage for a rate code description and breakdown of data by account code appears.

You can set the number of account codes that appear in the drill down using the TopN parameter. For example, if you type 2 as the TopN parameter, only the account codes with the highest and second highest charges appear when you drill down. If you leave the TopN parameter blank, all account codes for the parameters selected appear.

Parameters:

- Account Code Level
- TopN
- Starting and Ending Account Code
- From and To Date

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	Rate Group		<u>Charge</u>	<u>%</u>	
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	Total OS/390 Tso charges		12,064.18	11.20%	_
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	Total OS/390 Printer/Reader charges		401.84	0.37%	
	Total OS/390 Storage charges		8,491.25	7.89%	
	Total OS/390 DB2 charges		0.30	0.00%	
	Total Unix interactive job type charges	;	421.90	0.39%	
	())				>

Figure A-33 • Run Total Rate Group Percent Report Example

Run Total Invoice with Shifts

File name: RIVTC004.rpt

Stored Procedure: CIMSSP_Summary

This report is the same as the Run Total Invoice report (see page A-52) except that the units, rate, and charges for each rate code description are broken down by shift if the CIMSSummary table contains multiple shift codes for a rate code.

Drill down:

 Double-click a rate code description or its corresponding units, rate, or charge and and a breakdown of data by account code appears.

Parameters:

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- Starting and Ending Account Code
- From and To Date

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Figure A-34 • Run Total Invoice with Shifts Report Example

Zero Cost Center Invoice Report

File name: RIVZC001.rpt

Stored Procedure: None

This report provides zero cost invoicing by account code for the parameters selected. You can adjust the total invoice amount or the amount for each rate by the zero cost amount.

This report first displays the Zero Cost Center Factor Report. The Zero Cost Center Factor Report shows the zero factor difference between the total amount due for all account codes and the zero cost amount. You can run the Zero Cost Center Factor Report independently (see page A-58).

Drill down:

- Click the units for a rate and a new page appears to enable a drill down of units by identifier. This page invokes the report Invoice Drill Down for Rate (see page A-15), Invoice Drill Down for Units by Date (page A-17), or Multilevel Drill Down for Units (see page A-18).
- Click the rate group name in the Total line and a new page appears to enable a Drill down of charges by identifier. This page invokes the report Invoice Drill Down for Rate Group (see page A-12) or Invoice Drill Down for Rate Group by Date (see page A-14).

- Starting and Ending Account Code
- Account Code Level
- From and To Date
- Invoice Number
- Zero Cost Processing Option
- Zero Cost Amount

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Zero Cost Center Invoice		Publis	h Re	turn	Help	
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EE	Zero Cost Center Invo	ice	Billing Period: 6/1/2	Invoice No. 1		
			5 ming 1 chout 0/ 2/ 2	005 10 07 507 2005		
	Big Time Company					
	Corporate Headquarters 3013 Douglas Blvd.					
	Suite 120					
	Roseville, CA 95661					
	AA-CIMS Lab, Inc. Roseville					
		Unite	Rate	Charge		
	MS Exchange Emails Sent	<u>Units</u> 1.048	0.00100000 /M	0.00		
	MS Exchange Bytes Received	411,967,162	0.00150000 /M	617.97		
	MS Exchange Emails Received	5,290	0.00030000 /M	0.00		
	Total MS Exchange			635.62		
	MS Windows Elapsed Time in seconds	9,456.12	0.00000000	0.00		
	MS Windows CPU Time in seconds MS Windows Kernel CPU Time in seconds	0.35	0.00010000 /M 0.00150000 /M	0.00		
	MS Windows Verner CPU Time in seconds MS Windows User CPU Time in seconds	0.13	0.00080000 /M	0.00		
	MS Windows Read Requests	32,231,746	0.00300000 /M	96.70		
	MS Windows KB Read MS Windows KB Written	2,123,127.00 1,564,173.00	0.00075000 /M 0.00032000 /M	1.67		
	MS Windows KB Written MS Windows Write Requests	31.287.427	0.00021000	6.570.33		
	Windows Pages	214,937.00	0.00000000	0.00		
	Total MS Windows Processes			6,669.18		
	Sub Total			37,681.90		
	Zero Reduction Factor		_	0.97505186		
	Amount Due			36,741.81		~
			-			

Figure A-35 • Zero Cost Center Invoice–Factor Total Report Example

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AA BB	Zero Cost Center Invoice		Billing Period: 6/1/	Invoice No. 1 2003 to 6/30/2003		2
CC DD EE	Big Time Company Corporate Headquarters 3013 Douglas Blvd. Suite 120 Roseville, CA 95661					
	AA-CIMS Lab, Inc. Roseville					
	MS Windows Disk Size in MB MS Windows Number of Files	Units 69,393.57 46	Rate 0.00000975 /M 0.00195010	0.00 0.09		
	Total MS Windows storage charges			0.09		
_	MS Exchange Bytes Sent MS Exchange Emails Sent MS Exchange Bytes Received MS Exchange Emails Received	176,651,883 1,048 411,967,162 5,290	0.00009751 /M 0.00097505 /M 0.00146258 /M 0.00029252 /M	17.22 0.00 602.53 0.00		
	Total MS Exchange			619.76		
	MS Windows Elaysed Time in seconds MS Windows CPU Time in seconds MS Windows Kernel CPU Time in seconds MS Windows Isar CPU Time in seconds MS Windows Read Requests MS Windows KB Read MS Windows Winte Requests Windows Pages	9,456.12 0.35 0.22 0.13 32,231,746 2,123,127.00 1,564,173.00 31,287,427 214,937.00	0.00000000 0.0009751 /M 0.00145258 /M 0.000292516 /M 0.00023129 /M 0.00031202 /M 0.00031202 /M 0.00020476 0.00000000	0.00 0.00 0.00 94.28 1.55 0.49 6,406.44 0.00		
	Total MS Windows Processes			6,502.76		
	Total Amount Due			36,741.98		

Figure A-36 • Zero Cost Center Invoice–Factor Rates Report Example

Zero Cost Center Factor Report

File name: RIVZC002.rpt

Stored Procedure: None

This report appears as the first report in the Zero Cost Center Invoice (see page A-56); however, you can also run this report independently. The last page of this report provides the zero factor difference between the total amount due for all account codes and the zero cost amount.

Drill down:

 Double-click a rate code description or its units, rate or charge and a breakdown of charges by account code appears.

Parameters:

- Starting and Ending Account Code
- From and To Date
- Zero Cost Amount

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- <mark>AA</mark> • BB • CC	Total MS IIS			508.43		
- DD - EE	MS Exchange Bytes Sent MS Exchange Emails Sent MS Exchange Bytes Received MS Exchange Emails Received	227,112,099 1,663 646,785,228 7,201	0.000100000 /M 0.00100000 /M 0.00150000 /M 0.00030000 /M	22.61 0.00 970.19 0.00		
	Total NS Exchange MS Windows Elapsed Time In seconds MS Windows CPU Time In seconds MS Windows Kernel CPU Time in seconds MS Windows Kernel CPU Time in seconds MS Windows Kernel Regulation MS Windows Kernel Regulation MS Windows Winte Requests	40,158,62 29,46 4,64 24,82 74,984,313 340,802,721.00 111,238,959,00 47,101,527	0.00000000 0.00150000 /M 0.00550000 /M 0.00300000 /M 0.00075000 /M 0.00032000 /M 0.00032000 /M	992.80 0.00 0.00 224.87 255.58 35.53 9,891.39		
	Windows Pages Total MS Windows Processes	16,259,935.00	0.00000000	0.00		
	Amount Due Zero Value Zero Factor			107,686.58 105,000.00 0.97505186		
	Run on: 6/13/2003 at 2:05:30PM			Page 3		
						~

Figure A-37 • Zero Cost Center Factor Report Example

Job Cost Report

File name: RJOBC001.rpt

Stored Procedure: CIMSSP_JobCost

This report provides costs by job name. Rather than using costs from CIMSSummary table, this report calculates costs directly using rate code values and options (rate shifts, resource conversion, etc.) from the CIMSRate table.

The following is a description of each of the columns in this report:

Job Name	Jobname identifier value .
Sub-ID	Work ID identifier value.
Account	Account code.
Jobs	Number of jobs.
CPU Cost	Cost for rate code Z003 (Mainframe CPU Minutes) + Z020 (TSO CPU Minutes).
Tape I/O Cost	Cost for rate code Z007 (Tape SIOs).
Disk I/O Cost	Cost for rate code Z006 (Disk SIOs).
Other I/O Cost	Cost for rate code Z021 (TSO Inputs) + Z022 (TSO Outputs).
Input Data Cost	Cost for rate code Z014 (Input Records).
Print Cost	Cost for rate code Z016 (Lines Printed—Local) + Z017 (Pages Printed—Local) + Z018 (Print Time Minutes— Local).
Job Cost	Sum of preceding cost columns: CPU Cost through Print Cost.

Drill down:

■ Click any item in a line and a breakdown of for all items in the line appears.

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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AR11DALY-0002	JODC	ost	Report						
AR15DALY-0002					HUP C				
AR16DALY-0002	Account R								
AR22DALY-0002	Date Rang	e: 11/1	/2004 to 11/3	30/2004					
AR24DALY-0002 327FCH1-0002						TAPE I/O	DISK I/O	OTHER I/O	
B27FCH1-0002 BA595-0002	JOB NAME	SUB-ID		JOBS	CPU	cost	COST	COST	CARD INPU
BA873-0002			ACCOUNT		COST				COST
BBIEOM-0002			heedditt						
BLSJPRMI-STC									
BPXAS-STC	CIMS049A	JES 2	WTX	2	\$2.87	\$0.00	\$0.27	\$0.00	\$0
CIF0060-0002	CIMS04	TSO	WTX	-	\$49.93	\$0.00	\$0.68	\$5.14	\$0
CIF058-0002	CIMS06DB CIMS06DL	JES2 JES2	WTX WTX	16 19	\$19.30 \$37.40	\$0.00 \$0.00	\$0.36 \$3.83	\$0.00 \$0.00	\$0 \$0
CIMS02RM-JES2	CIMS06PR	JES2 JES2	WTX	23	\$1.84	\$0.00	\$0.07	\$0.00	\$0
CIMS02-TSO	CIMS06RC	JES2 JES2	WTX	23	\$0.10	\$0.00	\$0.00	\$0.00	\$0
CIMS02XX-JES2	CIMS06SB	JES2	WTX	6	\$1.86	\$0.00	\$0.04	\$0.00	\$0
CIM503AL-JE52	CIMS06SM	JES2	WTX	1	\$3.00	\$0.00	\$0.12	\$0.00	\$0
CINDOJHE DEDE	CIMS06	TSO	WTX	13	\$125.19	\$0.00	\$1.32	\$19.56	\$0
	CIMS06WC	JES 2	WTX	11	\$10.51	\$0.00	\$1.76	\$0.00	\$0
CIMS03CS-JE52		JES 2	WTX	17	\$9.16	\$0.00	\$0.80	\$0.00	\$0
CIM503CS-JE52 CIM503GI-JE52 CIM503GN-JE52	CIMS06WS			1	\$0.68	\$0.00	\$0.00	\$0.03	\$0
CIM503CS-JE52 CIM503GI-JE52 CIM503GN-JE52	CIMS06WS CIMS08	TSO	WTX					* *****	\$0
CIM503C5-JE52 CIM503GI-JE52 CIM503GN-JE52 CIM503TM-JE52 CIM503TM-JE52 CIM503-T50		TSO JES2	WTX WTX	5	\$0.51	\$0.00	\$0.02	\$0.00	Э О
CIM503CS-JE52 CIM503GI-JE52 CIM503GN-JE52 CIM503TM-JE52	CIMS08 CIMS10AL CIMS10R	JES 2 JES 2	WTX WTX	11	\$22.81	\$0.00	\$0.97	\$0.00	\$3
CIM503CS-JE52 CIM503GI-JE52 CIM503GN-JE52 CIM503TM-JE52 CIM503TM-JE52 CIM503-T50	CIMS08 CIMS10AL	JES 2	WTX						\$3 \$3

Job Cost Report Example

MS SQL Server 2000 Resource Report

File name: RMS2R001.rpt

Stored Procedure: CIMSSP_Detail_Resource

This report provides SQL Server 200 trace file data for the parameters selected. This data is taken from the CIMSDetail table.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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		All Accounts 1/2004 to 11/30/20	04				
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	ROCA-DEMO				743	40,018.0540	
	ROCA-DEMO		Administrator	MTG	143	5.4660	
	ROCA-DEMO		backupuser	WTX	2	0.3500	
	ROCA-DEMO		BatchDemo	DAC	1	51.1330	
	ROCA-DEMO		Greg	TEL	1	3,842.3060	
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	ROCA-DEMO	CIMSServer		TEL			
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Figure A-38 • MS SQL Server 2000 Resource Report Example

Percentage Report

File name: RPERX001.rpt

Stored Procedure: CIMSSP_Summary

This report provides the total charge by account code for the parameters selected and specifies the percentage of that charge in relationship to the total charges for all account codes. This report also provides a breakdown of the percentage by rate group and rate code description for each account code.

Drill down:

Double-click an account code and a breakdown of percentage by rate group appears. Double-click a rate group and a breakdown of percentage by rate code description appears.

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

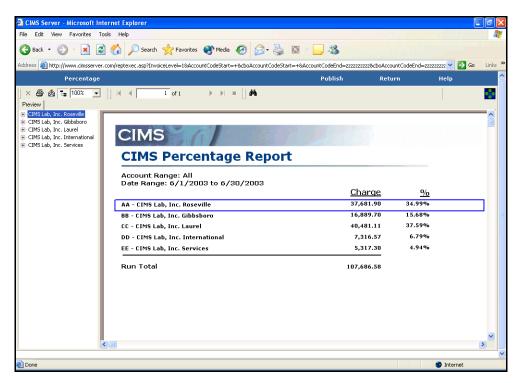


Figure A-39 • Percentage Report Example

Rate Report

File name: RRATX001.rpt

Stored procedure: None

This report provides the information contained in the CIMS Rate and Rate Group tables.

Drill down: None

Parameters: None

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Rate Group: 2 - OS/39	-								
	OS/390 Jobs Started	1	2,50000000						
Rate: Z001					0		N		
Rate: Z001 Rate: Z002	OS/390 Steps Started	3	0,50000000		0		N N		
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Rate: Z002	OS/390 Steps Started	3	0.50000000	1	0				
Rate: Z002 Rate: Z003	OS/390 Steps Started OS/390 Cpu Minutes	3	0.50000000 20.00000000	-	0				l
Rate: Z002 Rate: Z003 Rate: Z032	OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes (Initiators)	3 5 7	0.50000000 20.00000000 0.00000000	1	0 2 2				l
Rate: Z002 Rate: Z003 Rate: Z032 Rate: Z033	OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes (Initiators) OS/390 Cpu Minutes (All)	3 5 7 8	0.50000000 20.00000000 0.00000000 0.00000000	1	0 2 2 2		П Ү Ү Ү		l
Rate: 2002 Rate: 2003 Rate: 2032 Rate: 2032 Rate: CREDBAT Rate: SRM30CPT Rate Group: 3 - 05/39	OS(390 Steps Started OS(390 Cpu Minutes OS(390 Cpu Minutes (Inflators) OS(390 Cpu Minutes (Inflators) Batch Credit OS(390 CPU Minutes (TCB) 0 Tso charges	3 5 7 8 11 918	0.50000000 20.00000000 0.00000000 0.00000000	1	0 2 2 2 2 2 2 2		N Y Y Y		
Rate: 2002 Rate: 2003 Rate: 2032 Rate: 2033 Rate: CREDBAT Rate: SMF30CPT	OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes (Initiators) OS/390 Cpu Minutes (All) Batch Credit OS/390 CPU Minutes (TCB)	3 5 7 8 11 918	0.50000000 20.00000000 0.00000000 0.00000000	1	0 2 2 2 2		N Y Y Y		
Rate: 2002 Rate: 2003 Rate: 2032 Rate: 2032 Rate: CREDBAT Rate: SRM30CPT Rate Group: 3 - 05/39	OS(390 Steps Started OS(390 Cpu Minutes OS(390 Cpu Minutes (Inflators) OS(390 Cpu Minutes (Inflators) Batch Credit OS(390 CPU Minutes (TCB) 0 Tso charges	3 5 7 8 11 918	0.50000000 20.00000000 0.00000000 -1.00000000 0.00000000 25.00000000 0.25000000	1 1 1	0 2 2 2 2 2 2 2		N Y Y Y		
Rate: 2002 Rate: 2003 Rate: 2003 Rate: 2003 Rate: CODAT Rate: 54/30CPT Rate: 54/30CPT Rate: 2004 Rate: 2004 Rate: 2001	OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes (Dilators) OS/390 Cpu Minutes (All) Batch Credit OS/390 CPU Minutes (TCB) 15 cc charges Tiso Cpu Minutes Tiso Connect Minutes Tiso Charges	3 5 7 8 11 918 13 15 16	0.5000000 20.0000000 0.0000000 -1.0000000 25.0000000 0.25000000 2.5000000 0.25000000 0.25000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000	1 1 1	0 2 2 2 2 2 2 2 2 2 2 2 0		Y Y Y N N N New for CIMS Server Y		
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Rate: 2003 Rate: 2003 Rate: 2003 Rate: CO30 Rate: CRUDAT Rate: SHI30CH Rate: 2020 Rate: 2020 Rate: 2020 Rate: 2021 Rate: 2021 Rate: 2021	OS/390 Steps Started OS/390 Cpu Minutes OS/390 Cpu Minutes (Dilators) OS/390 Cpu Minutes (All) Batch Credit OS/390 CPU Minutes (TCB) 15 cc charges Tiso Cpu Minutes Tiso Connect Minutes Tiso Charges	3 5 7 8 11 918 13 15 16	0.5000000 20.0000000 0.0000000 -1.0000000 25.0000000 0.25000000 2.5000000 0.25000000 0.25000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000	1 1 1	0 2 2 2 2 2 2 2 2 2 2 0 0 0 2		N Y Y Y N N N N N		
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Rate: 2003 Rate: 2003 Rate: 2003 Rate: 2003 Rate: 2003 Rate: 2003 Rate: 54730CPT Rate: 54730CPT Rate: 2004 Rate: 2003 Rate: 2003 Rate: 2004 Rate: 2003 Rate: 2004 Rate: 2005 Rate: 2005	0(37)00 Gay Houtes 05/390 Gay Houtes 03/390 Gay Houtes 03/390 Gay Houtes 03/390 Gay Houtes 03/390 Gay Houtes 03/390 Gay Houtes Too Gay Houtes	3 5 7 8 11 918 13 15 16 18 19 20 21	0.50000000 20.0000000 0.0000000 -1.0000000 0.00000000 25.0000000 0.25000000 2.00000000 0.00000000 0.00000000 0.000000	1 1 1 1 1 1 1 1	0 2 2 2 2 2 2 2 2 0 0 2 2 2 2 2		N Y Y N New for CIMS Server Y N N N Y Y Y		

Figure A-40 • Rate Report Example

Top Cost Report

File name: RTOPC001.rpt

Stored Procedure: CIMSSP_Summary

This report provides the account codes with the highest charges for the parameters selected. For example, if you type 3 as the TopN parameter, the three account codes with the highest charges appear (see example Figure A-41 on page A-65). If you leave the TopN parameter blank, the account codes with the ten highest charges appear.

Drill down:

- Click the Invoice link and a complete invoice for the account code level appears (see Invoice Report on page A-44).
- Double-click an account code or its corresponding percent or charge and a breakdown of charges by rate group appears.

- TopN
- Account Code Level
- Starting and Ending Account Code
- From and To Date

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CINC				
CIMS				
CIMS Top 3 Cost Report				
Date Range: 6/1/2003 to 6/30/2003				
Account	%	Charges		
CC-CIMS Lab, Inc. Laurel	37.59%	40,481.11 In		
AA-CIMS Lab, Inc. Roseville BB-CIMS Lab, Inc. Gibbsboro	34.99% 15.68%	37,681.90 In 16,889.70 In		
Other Accounts	11.73%	12,633.87	<u>voice</u>	
Total		107,686.58		
				×

Figure A-41 • Top Cost Report Example

Top 10 Bar Graph Report

File name: RTOPC002.rpt

Stored Procedure: CIMSSP_Summary

This report is similar to the Top Cost Report (see page A-64). However, it provides accounts codes with the 10 highest charges for the parameters selected and it provides the data in bar graph as well as table format.

Drill down:

- Click the Invoice link and a complete invoice for the account code level appears (see Invoice Report on page A-44).
- Double-click an account code or its corresponding percent or charge and a breakdown of charges by rate code description appears in both bar graph and table format.

- Account Code Level
- Starting and Ending Account Code
- From and To Date

Note • In the following example, there are only five account codes for the account code level selected.

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20K		DD			
15K		_ cc			
5K					
	DO EE				
Account	96	Charges			
CC-CIMS Lab. Inc. Laurel	37.59%	40,481.11 Invoice			
AA-CIMS Lab, Inc. Roseville	34.99%	37,681.90 Invoice			
BB-CIMS Lab, Inc. Gibbsboro	15.68%	16,889.70 Invoice			
DD-CIMS Lab, Inc. International EE-CIMS Lab, Inc. Services	6.79% 4,94%	7,316.57 <u>Invoice</u> 5,317.30 <u>Invoice</u>			
Total		107,686.58			

Figure A-42 • Top 10 Bar Graph Report Example

Top 10 Pie Chart Report

File name: RTOPC003.rpt

Stored Procedure: CIMSSP_Summary

This report is similar to the Top Cost Report (see page A-64). However, it provides accounts codes with the 10 highest charges for the parameters selected and it provides the data in pie chart as well as table format.

Drill down:

- Click the Invoice link and a complete invoice for the account code level appears (see Invoice Report on page A-44).
- Double-click an account code or its corresponding percent or charge and a breakdown of charges by rate code description appears in both pie chart and table format.

- Account Code Level
- Starting and Ending Account Code
- From and To Date

Note • In the following example, there are only five account codes for the account code level selected.

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CIMS Top 10 Cost Rep	ort			
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	 CIMS Lab, Inc. Laurel 37.6% CIMS Lab, Inc. Roseville 35.0% 			
	CIMS Lab, Inc. Gibbsboro 15.7%			
	CIMS Lab, Inc. International 6.8%			
	CIMS Lab, Inc. Services 4.9% Total: 100.0%			
	Total. 100.0%			
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	7			
Account	% Charges 37.59% 40.481.11			
CC-CIMS Lab, Inc. Laurel AA-CIMS Lab, Inc. Roseville	37.59% 40,481.11 34.99% 37,681.90			
Jac-Carls Eas, Inc. Roseving	15.68% 16,889.70			
BB-CIMS Lab, Inc. Gibbsboro		Invoice		
DD-CIMS Lab, Inc. International				
	6.79% 7,316.57 4.94% 5,317.30			
DD-CIMS Lab, Inc. International				
DD-CIMS Lab, Inc. International EE-CIMS Lab, Inc. Services	4.94% 5,317.30			

Figure A-43 • Top 10 Pie Chart Report Example

Top Accounts for Rate Report

File name: RTOPC004.rpt

Stored Procedure: CIMSSP_Summary

This report provides the account codes with the highest usage of a specified rate code for the parameters selected. For example, if you type 3 as the TopN parameter, the three account codes with the highest rate code usage appear (see example Figure A-44 on page A-70). If you leave the TopN parameter blank, the account codes with the ten highest rate code usage appear.

Drill down: None

Parameters:

- TopN
- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Rate Code

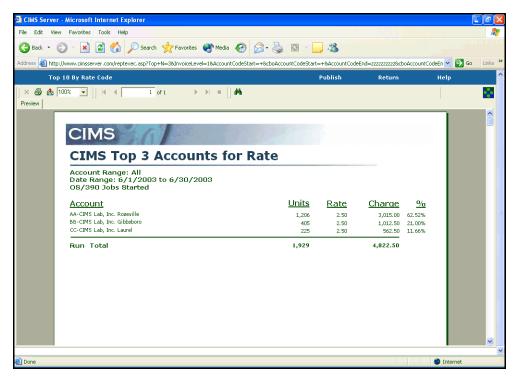


Figure A-44 • Top Accounts for Rate Report Example

Cost Trend Report

File name: RTRDC001.rpt

Stored Procedure: CIMSSP_Summary_Month

This report provides total charges by account code for each month of the year for the parameters selected. Monthly charges for each account code are presented on a single line.

Note • To print this report, use landscape mode on legal paper.

Drill down: None

Parameters:

- Account Code Level
- Report Year
- Starting and Ending Account Code

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	Cost Trend					For 2003		
	Account		Ch	arges by Mo	onth			
		January	February	March	April	May	June	
	AA - CIMS Lab, Inc. Roseville	87,382	84,449	82,234	110,604	105,392	37,682	
	BB - CIMS Lab, Inc. Gibbsboro	28,985	36,709	33,247	71,273	43,056	16,890	
	CC - CIMS Lab, Inc. Laurel	32,868	53,335	54,213	81,400	111,072	40,481	
	DD - CIMS Lab, Inc. International	11,080	4,617	3,702	7,323	18,517	7,317	
	EE - CIMS Lab, Inc. Services		7,788	6,264	11,550		5,317	_
		6,193	7,788	6,264	11,550	9,388	5,317	
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Figure A-45 • Cost Trend Report Example

Cost Trend by Rate Report

File name: RTRDC002.rpt

Stored Procedure: CIMSSP_Summary_Month

This report provides total charges by rate code description and rate group for each month of the year for the parameters selected.

Note • To print this report, use landscape mode on legal paper.

Drill down: None

Parameters:

- Account Code Level
- Report Year
- Starting and Ending Account Code

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IIS	Unix image time	51	68	53	943 112	45	477
Exchange	Unix user CPU	1	10	3	2	45 1	1
Windows Processes	Unix system CPU	1	6	2	7	n n	1
	Unix total CPU	6	41	13	17	3	3
	Unix memory	12	92	17	7	34	2
	Unix image count	869	7,520	1,230	322	120	238
	Unix logins	25	42	23	24	13	13
	Unix interactive job	1,186	8,406	1.539	1,439	303	833
	type charges						

Figure A-46 • Cost Trend by Rate Report Example

Resource Usage Trend Report

File name: RTRDR001.rpt

Stored Procedure: CIMSSP_Summary_Month

This report provides total resource usage by rate code for each month of the year for the parameters selected. This report is ordered by account code, rate group, and rate code.

Note • To print this report, use landscape mode on legal paper.

Drill down: None

Parameters:

- Account Code Level
- Report Year
- Starting and Ending Account Code

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	Account					For	2003	
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		January	February	March	April	May	June	
	CC - CIMS Lab, Inc.							
	OS/390 Batch char	aes						
	OS/390 Jobs Started	300	438	324	651	626	225	
	OS/390 Steps Started	1,784	3,262	2,479	4,762	4,741	1,680	
	OS/390 Cpu Minutes	357.74	258.30	165.07	357.54	299.89	148.64	
	OS/390 Cpu Minutes	359.06	260.61	166.73	119.92	3.14	1.11	
	(Initiators)							
	OS/390 Cpu Minutes (All)	386.90	282.44	179.07	386.39	324.77	161.16	
	OS/390 Tso charge	s						
	Tso Cpu Minutes	- 7.67	7.09	4.61	8.31	6.83	1.60	
	Tso Connect Minutes	5,633,82	16,009,44	6,259.56	7.115.68	12,004,80	1,555.60	
	Tso Inputs	24,215	18,840	11,334	20,475	11,344	3,577	
	Tso Outputs	25,209	19,857	13,297	22,838	13,774	4,001	
	Tso Cpu Minutes (Tcb)	3,97					.,	
	Tso Cpu Minutes	7.75	7.18	4.69	2.40	0.12	0.04	
	(Initiator)							>

Figure A-47 • Resource Usage Trend Report Example

Transaction Report

File name: RTRNX001.rpt

Stored procedure: None

This report provides the Miscellaneous, Recurring and Credit, transactions for the parameters selected. For more information about transactions, see *Chapter 6*, *Using Transactions*.

Drill down: None

Parameters:

- Transaction Type
- Starting and Ending Account Code
- From and To Date

Report Example

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Figure A-48 • Transaction Report Example

Cost Variance Report

File name: RVARC001.rpt

Stored Procedure: CIMSSP_Variance

This report provides a comparison of charges by account code, rate code description, and rate group for a specified month and the month prior for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Report Month
- Report Year
- Starting and Ending Account Code

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		OS/390 Printer/Reader charges	56.85	33.12	-23.73	-41.74
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Figure A-49 • Cost Variance Report Example

Cost Variance Drill Down Report

File name: RVARC002.rpt

Stored Procedure: CIMSSP_Variance

This report provides a comparison of charges by rate code description and rate group for a specified month and the month prior for the parameters selected.

Drill down:

Double-click a rate code description or its corresponding monthly totals, variance, or percent and a breakdown of data by account code appears.

Parameters:

- Account Code Level
- Report Year
- Report Month
- Starting and Ending Account Code

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/390 Storage charges /390 DB2 charges	Cont Maria and Daillidean				
x interactive job type char(Cost Variance Drilldown	Jun	e 2003		
× background job type chai × storage charges		<u>May 2003</u>	<u>Jun 2003</u>	Variance	Percent
acle charges	OS/390 Jobs Started	17,212.50	4,822.50	-12,390.00	-71.98
Windows storage charges Windows Oracle charges	OS/390 Steps Started	15,692.50	4,622.50	-10,587.50	- 71.90
Windows SQL Server	OS/390 Cpu Minutes	22,782.16	10,967,63	-11.814.53	-51.86
IIS	OS/390 Batch charges	55,687.16	20,895.13	-34,792.03	-62.48
Exchange Windows Processes	Tso Cou Minutes	1.097.20	302.39	-794.81	-72,44
	Tso Connect Minutes	36,760.90	11,658.42	-25,102.48	-68.29
	Tso Inputs	367.88	67.48	-300.40	-81.66
	Tso Outputs	208.13	35.89	-172.24	-82.76
	OS/390 Tso charges	38,434.11	12,064.18	-26,369.93	-68.61
	Disk SIOs	15,418.22	6,825.54	-8,592.68	-55.73
	Tape SIOs	10,278.41	4,734.68	-5,543.73	-53.94
	OS/390 Input/Output charges	25,696.63	11,560.22	-14,136.41	-55.01
	Input Records	1,860.75	401.84	-1,458.91	- 78, 40
	OS/390 Printer/Reader charges	1,860.75	401.84	-1,458.91	-78.40
	Disk Data Sets	27,841.00	8,491.25	-19,349.75	-69.50
	RE/308 Storage charges	27 841 00	R /01 75	-10 3/0 75	-60 50

Figure A-50 • Cost Variance Drill Down Report Example

Resource Variance Report

File name: RVARR001.rpt

Stored Procedure: CIMSSP_Variance

This report provides a comparison of resource usage by account code, rate group, and rate code description for a specified month and the month prior for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Report Year
- Report Month
- Starting and Ending Account Code

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and eddy and dervices	Resource Variance	June 20	000		
	Resource variance	June Zu	103		
	EE-CIMS Lab, Inc. Services				
		May 2003	Jun 2003	Variance	Dorsont
		<u>May 2003</u>	<u>Jun 2003</u>	variance	Percenc
	OS/390 Batch charges	400		70	<i></i>
	OS/390 Jobs Started	123 33	44	-79 -17	-64.23 -51.52
	OS/390 Steps Started OS/390 Cpu Minutes	0.55	16 0.01	-1/	-51,52
	OS/ 390 Cpu Minutes	0.55	0.01	-0.54	-98.75
	OS/390 Input/Output charges				
	Disk SIOs	302	36	-266	-88.08
	0\$/390 Printer/Reader charges Input Records	12	2	-10	-83.33
	anpat records	12	2	-10	-03, 33
	OS/390 Storage charges				
	Disk Data Sets	16	2	-14	-87.50
	Unix interactive job type charges				
	Unix disk I/O	25	35	10	42.16
	Unix character I/O	43,906	39,119	-4,786	-10.90
	Unix image time	762.42	714.12	-48.30	-6.33
	Unix connect time	94.20	99.71	5.51	5.85
<					>

Figure A-51 • Resource Variance Report Example

Disk Directory Resource Report

File name: RWDKR001.rpt

Stored Procedure: CIMSSP_Detail_Resource

This report provides windows disk storage data for the parameters selected. This data is taken from the CIMSDetail table.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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HROCA-SRV1 Common HROCA-SRV1 Users	Disk Directory Res	ource Deport				
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	Account Range: All Accounts Date Range: 11/1/2004 to 11/	/30/2004				
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	CIMSLAB-C	certsrv	DEP			
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	CIMSLAB-C	Com	CCX			
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	CIMSLAB-C	dlicache	RTM			
	CIMSLAB-C	dns	SSI			
	CIMSLAB-C	drivers	TEL			
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Figure A-52 • Disk Directory Resource Report Example

Account Summary by Week Report

File name: RWEKC001.rpt

Stored Procedure: CIMSSP_Summary_Day

This report provides the total weekly and monthly charges by account code and rate code description for the parameters selected.

Drill down:

 Double-click the charge for a week and a breakdown of charges by rate code description appears.

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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CIMS Lab, Inc. Roseville CIMS Lab, Inc. Gibbsboro CIMS Lab, Inc. Laurel CIMS Lab, Inc. International CIMS Lab, Inc. Services	CIMS Account Summary By We	ek From: 6/:	1/2003 To: 6/30/20	003	
	<u>Account</u> AA - CIMS Lab, Inc. Roseville			<u>Charge</u>	
	Week of 6/1/2003 to 6/7/2003 Week of 6/8/2003 to 6/14/2003			20,722.47 16,959.43	
	June 2003			37,681.90	-
	Total for AA - CIMS Lab, Inc. Roseville			37,681.90	
	BB - CIMS Lab, Inc. Gibbsboro				
	Week of 6/1/2003 to 6/7/2003 Week of 6/8/2003 to 6/14/2003			7,264.82 9,624.88	
	June 2003			16,889.70	<u> </u>
	Total for BB - CIMS Lab, Inc. Gibbsboro			16,889.70	ı.
	CC - CIMS Lab, Inc. Laurel				
	Week of 6/1/2003 to 6/7/2003			22,449.70	

Figure A-53 • Account Summary by Week Report Example

Account Summary by Week–Wide Report

File name: RWEKC002.rpt

Stored Procedure: CIMSSP_Summary_Day

This report is similar to the Account Summary by Week report (see page A-79). However, the weeks are displayed across the top of the page.

Drill down:

 Double-click an account code and a weekly breakdown of charges by rate code description appears.

Parameters:

- Account Code Level
- Report Year
- Report Month
- Starting and Ending Account Code

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CIMS Lab, Inc. Services	Account Summary	y By Week						
			Charg	jes				
		6/1/2003 6/7/2003	6/8/2003 6/14/2003	6/15/2003 6/21/2003	6/22/2003 6/28/2003	6/29/2003 6/30/2003	MTD	
	AA - CIMS Lab, Inc. Roseville	20,722.47	16,959.43				37,681.90	
	BB - CIMS Lab, Inc. Gibbsboro	7,264.82	9.624.88				16,889.70	
	CC - CIMS Lab, Inc. Laurel	22,449.70	18,031.41				40,481.11	
	DD - CIMS Lab, Inc. International	2.536.42	4,780.15				7.316.57	
	EE - CIMS Lab, Inc. Services	2,265.49	3.051.81				5,317.30	
	Report Total	,	,					
	Report Total	55,238.90	52,447.68				107,686.58	
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Figure A-54 • Account Summary by Week–Wide Report Example

Account Summary YTD Report

File name: RYTDC001.rpt

Stored Procedure: CIMSSP_Summary_Month

This report provides the total monthly and YTD charges by account code, rate group, and rate code description for the parameters selected.

Drill down:

Double-click a month or the charge for a month and a breakdown of charges by rate group appears. Double-click a rate group and a breakdown of charges by rate code description appears.

Parameters:

- Account Code Level
- Report Year
- Starting and Ending Account Code

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CIMS Lab, Inc. International	5 6 6			
CIMS Lab, Inc. Services				
Accol	int Summary Year To Date	For: 2003		
Assount			Chauga	
Account			<u>Charge</u>	-1
AA - CIMS	Lab, Inc. Roseville			
January 200	3		87,381.95	_
February 20	03		84,449.22	
March 2003			82,234.27	
April 2003			110,604.39	
May 2003			105,392.23	
June 2003	CIMS Lab, Inc. Roseville		37,681.90	- 1
			507,743.96	
BB - CIMS	Lab, Inc. Gibbsboro			
January 200	3		28,984.62	-
February 20	03		36,708.66	
March 2003			33,246.62	
April 2003			71,272.80	
May 2003			43,056.39	
June 2003			16,889.70	- 1
YTD BB -	CIMS Lab, Inc. Gibbsboro		230,158.79	
CC - CIMS	Lab. Tnc. Laurel			>

Figure A-55 • Account Summary YTD Report Example

Account Summary YTD–Wide Report

File name: RYTDC002.rpt

Stored Procedure: CIMSSP_Summary_Month

This report is similar to the Account Summary YTD report (see page A-81). However, the months are displayed across the top of the page.

Drill down:

 Double-click an account code and a monthly breakdown of charges by rate code description appears.

Parameters:

- Account Code Level
- Report Year
- Starting and Ending Account Code

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-ATM - ATM Transactions		4 C 12		4		
E-CCX - Credit Card	CIMS	G La				
COM - Commercial Loans DAC - Drafts and Collections	Account Summary ' Account Range: All Accounts	Year To Date				
DEP - Electronic Deposits	Year: 2004		Charges by M	onth		
⊞-MTG - Mortgages		January	February	March	April	May
ONE - Online Electronic Payments ONE - Retirement	_	July	August	September	October	November
	ATM - ATM Transactions					
TEL - Telephone Transactions					493.54	14,039.16
B-TEL - Telephone Transactions B-WTX - Wire transfers	cov - credit covi	5,815.35	3,549.86	3,784.63	493.54 4,677.65	14,039.16
	CCX - Credit Card —	5,815.35	3,549.86	3,784.63		
	CCX - Credit Card				4,677.65 21,502.93	2,165.80
	CCX - Credit Card	5,815.35 14,906.99	3,549.86	3,784.63 31,165.69	4,677.65	2,165.80
					4,677.65 21,502.93 156,833.82	2,165.80 2,752.96 72,618.74
	COM - Commercial Loans	14,906.99 23,111.33			4,677.65 21,502.93	2,165.80
		14,906.99 23,111.33	16,290.61	31,165.69	4,677.65 21,502.93 156,833.82 223.07	2,165.80 2,752.96 72,618.74 5,654.88
	COM - Commercial Loans	14,906,99 23,111.33 \$	16,290.61 32,547.46	31,165.69 22,371.70	4,677.65 21,502.93 156,833.82 223.07 33,633.98 12.38	2,165.80 2,752.96 72,618.74 5,654.88 13,572.54
	COM - Commercial Loans	14,906.99 23,111.33	16,290.61	31,165.69	4,677.65 21,502.93 156,833.82 223.07 33,633.98	2,155.80 2,752.96 72,618.74 5,654.88 13,572.54
	COM - Commercial Loans	14,906,99 23,111.33 \$	16,290.61 32,547.46	31,165.69 22,371.70	4,677.65 21,502.93 156,833.82 223.07 33,633.98 12.38 6,410.16	2,165.60 2,752.96 72,618.74 5,654.88 13,572.54 6,965.24 3,039.32
	COM - Commercial Loans	14,906,99 23,111.33 \$	16,290.61 32,547.46	31,165.69 22,371.70	4,677.65 21,502.93 156,833.82 223.07 33,633.98 12.38	2,165.80 2,752.96 72,618.74 5,654.88 13,572.54

Figure A-56 • Account Summary YTD–Wide Report Example

Spreadsheets

This section describes the CIMS Server spreadsheets. When you run a spreadsheet, CIMS Server Web Reporting presents the report data in Microsoft Excel. In addition to viewing the report in the Web browser, you can also save the spreadsheet as an Excel or other file or publish the report for all users. For more information, see *Working With Spreadsheets* on page 3-9. You must have Excel installed on the client running the spreadsheet.

Invoice Spreadsheet

File name: SINVC001.rpt

Stored Procedure: None

This spreadsheet provides invoice information for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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1	AccountName	AccountCode	RateCode	RateDescripti	RateGroup	<u>GroupTitle</u>	StartDate	<u>EndDate</u>	<u>ResourceUnits</u>	<u>RateValue</u>	Per :
2	CIMS Lab, In	AA	Z001	OS/390 Jobs	2	OS/390 Batch	6/1/2003	6/30/2003	1,452.00	2.50	
3	CIMS Lab, In	AA	Z002	OS/390 Steps	2	OS/390 Batch	6/1/2003	6/30/2003	7,135.00	0.50	
4	CIMS Lab, In	AA	Z003	OS/390 Cpu f	2	OS/390 Batch	6/1/2003	6/30/2003	314.29	20.00	
5	CIMS Lab, In	AA	Z032	OS/390 Cpu f	2	OS/390 Batch	6/1/2003	6/30/2003	3.44	0.00	
6	CIMS Lab, In	AA	Z033	OS/390 Cpu f	2	OS/390 Batch	6/1/2003	6/30/2003	357.27	0.00	
7	CIMS Lab, In	AA	Z020	Tso Cpu Minu	3	OS/390 Tso	6/1/2003	6/30/2003	9.92	25.00	
8	CIMS Lab, In	AA	ZZ04	Tso Connect I	3	OS/390 Tso	6/1/2003	6/30/2003	18,218.45	0.25	
9	CIMS Lab, In	AA	Z021	Tso Inputs	3	OS/390 Tso	6/1/2003	6/30/2003	29,003.00	2.00	М
10	CIMS Lab, In	AA	Z022	Tso Outputs	3	OS/390 Tso	6/1/2003	6/30/2003	30,926.00	1.00	М
11	CIMS Lab, In	AA	Z035	Tso Cpu Minu	3	OS/390 Tso	6/1/2003	6/30/2003	0.11	0.00	
12	CIMS Lab, In	AA	Z036	Tso Cpu Minu	3	OS/390 Tso	6/1/2003	6/30/2003	10.60	0.00	
13	CIMS Lab, In	AA	Z005	Total SIOs	5	OS/390 Input	6/1/2003	6/30/2003	26,625,572.00	0.00	М
14	CIMS Lab, In	AA	Z006	Disk SIOs	5	OS/390 Input	6/1/2003	6/30/2003	16,325,356.00	0.25	М
15	CIMS Lab, In	AA	Z007	Tape SIOs	5	OS/390 Input	6/1/2003	6/30/2003	10,300,216.00	0.35	М
16	CIMS Lab, In	AA	Z014	Input Records	6	OS/390 Printe	6/1/2003	6/30/2003	386,100.00	1.00	М
17	CIMS Lab, In	AA	ZZ05	Tape Mounts	7	OS/390 Stora	6/1/2003	6/30/2003	1,992.00	0.00	
18	CIMS Lab, In	AA	ZZ06	Disk Data Set	7	OS/390 Stora	6/1/2003	6/30/2003	18,975.00	0.25	
19	CIMS Lab, In	AA	ZZ33	DB2 Transact	10	OS/390 DB2	6/1/2003	6/30/2003	17.00	0.02	
20	CIMS Lab, In	AA	ZZ34	DB2 Transact	10	OS/390 DB2	6/1/2003	6/30/2003	0.27	0.15	
21	CIMS Lab, In	AA	LLA101	Unix disk I/O	12	Unix interacti	6/1/2003	6/30/2003	44.38	0.10	
22	CIMS Lab, In	AA	LLA102	Unix characte	12	Unix interacti	6/1/2003	6/30/2003	17,502.97	0.00	М
23	CIMS Lab, In	AA	LLA103	Unix image ti	12	Unix interacti	6/1/2003	6/30/2003	174.71	0.09	
24	CIMS Lab, In	AA	LLA104	Unix connect	12	Unix interacti	6/1/2003	6/30/2003	362.80	0.10	
25	CIMS Lab, In	AA	LLA105	Unix user CPI	12	Unix interacti	6/1/2003	6/30/2003	18.79	0.01	
26	CIMS Lab, In	AA	LLA106	Unix system (12	Unix interacti	6/1/2003	6/30/2003	3.17	0.02	
27	CIMS Lab, In	AA	LLA107	Unix total CPI	12	Unix interacti	6/1/2003	6/30/2003	21.96	0.03	
28	CIMS Lab, In	AA	LLA108	Unix memory	12	Unix interacti	6/1/2003	6/30/2003	1,724,530.10	0.00	М
	CIMS Lab, In		LLA109	Unix image co	12	Unix interacti	6/1/2003	6/30/2003	7,260.00	0.02	
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Figure A-57 • Invoice Spreadsheet Example

Run Total Invoice Spreadsheet

File name: SINVC002.rpt

Stored Procedure: None

This spreadsheet provides total invoice information by rate code for the parameters selected.

Drill down: None

Parameters:

- Starting and Ending Account Code
- From and To Date

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	A	В	С	D	E	F	G	н	1.1
	<u>RateCode</u>	RateDescription	RateGroup	GroupTitle	StartDate	EndDate	<u>ResourceUnits</u>	RateValue	Per 1000
	Z001	OS/390 Jobs Started	1	OS/390 Batch	6/1/2003	6/30/2003	2,649.00	2.50	
	Z002	OS/390 Steps Started	1	OS/390 Batch	6/1/2003	6/30/2003	13,398.00	0.50	
	Z003	OS/390 Cpu Minutes	1	2 OS/390 Batch	6/1/2003	6/30/2003	598.22	20.00	
	Z032	OS/390 Cpu Minutes (Initiators)	1	2 OS/390 Batch	6/1/2003	6/30/2003	9.05	0.00	
6	Z033	OS/390 Cpu Minutes (All)	1	2 OS/390 Batch	6/1/2003	6/30/2003	660.28	0.00	
7	Z020	Tso Cpu Minutes		3 OS/390 Tso	6/1/2003	6/30/2003	16.81	25.00	
В	ZZ04	Tso Connect Minutes	:	3 OS/390 Tso	6/1/2003	6/30/2003	52,707.13	0.25	
9	Z021	Tso Inputs	;	3 OS/390 Tso	6/1/2003	6/30/2003	52,912.00	2.00	м
0	Z022	Tso Outputs		3 OS/390 Tso	6/1/2003	6/30/2003	56,396.00	1.00	М
1	Z035	Tso Cpu Minutes (Initiator)	:	3 OS/390 Tso	6/1/2003	6/30/2003	0.25	0.00	
2	Z036	Tso Cpu Minutes (All)	:	3 OS/390 Tso	6/1/2003	6/30/2003	18.10	0.00	
3	Z005	Total SIOs		5 OS/390 Input/Output charges	6/1/2003	6/30/2003	49,176,613.00	0.00	М
4	Z006	Disk SIOs		5 OS/390 Input/Output charges	6/1/2003	6/30/2003	33,381,169.00	0.25	М
15	Z007	Tape SIOs		5 OS/390 Input/Output charges	6/1/2003	6/30/2003	15,795,444.00	0.35	М
6	Z014	Input Records		5 OS/390 Printer/Reader	6/1/2003	6/30/2003	429,266.00	1.00	М
7	ZZ05	Tape Mounts		7 OS/390 Storage	6/1/2003	6/30/2003	2,509.00	0.00	
8	ZZ06	Disk Data Sets		7 OS/390 Storage	6/1/2003	6/30/2003	47,330.00	0.25	
9	ZZ33	DB2 Transactions (Records)	10	0 OS/390 DB2	6/1/2003	6/30/2003	17.00	0.02	
20	ZZ34	DB2 Transaction Elapsed Minutes	10	0 OS/390 DB2	6/1/2003	6/30/2003	0.27	0.15	
21	LLA101	Unix disk I/O	13	2 Unix interactive	6/1/2003	6/30/2003	400.60	0.10	
22	LLA102	Unix character I/O	12	2 Unix interactive	6/1/2003	6/30/2003	101,519.50	0.00	М
23	LLA103	Unix image time	12	2 Unix interactive	6/1/2003	6/30/2003	5,296.13	0.09	
	LLA104	Unix connect time	13	2 Unix interactive	6/1/2003	6/30/2003	612.98	0.10	
5	LLA105	Unix user CPU	1:	2 Unix interactive	6/1/2003	6/30/2003	90.50	0.01	
6	LLA106	Unix system CPU	1:	2 Unix interactive	6/1/2003	6/30/2003	13.97	0.02	
7	LLA107	Unix total CPU	13	2 Unix interactive	6/1/2003	6/30/2003	104.46	0.03	
8	LLA108	Unix memory	1:	2 Unix interactive	6/1/2003	6/30/2003	3,532,685.27	0.00	М
29	LLA109	Unix image count	13	2 Unix interactive	6/1/2003	6/30/2003	11,908.00	0.02	
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Figure A-58 • Run Total Invoice Spreadsheet Example

Invoice by Rate Group Spreadsheet

File name: SINVC003.rpt

Stored Procedure: None

This spreadsheet provides invoice information for the rate codes within a selected rate group for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Rate Group

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	A	В	С	D	E	F	G	H		J	<u> </u>
1	AccountName Acc			RateDescription	RateGroup	GroupTitle	StartDate	EndDate	ResourceUnits	RateValue	Per 1000
2	CIMS Lab, In BB		LLW101	MS Windows Oracle logins		MS Windows	6/1/2003		26.00	0.80	
3	CIMS Lab, In BB		LLW102	MS Windows Oracle session MS Windows Oracle connect		MS Windows	6/1/2003		153.33	0.25	
4	CIMS Lab, In BB		LLW103 LLW104			MS Windows	6/1/2003 6/1/2003		7,997.80	1.00	
5	CIMS Lab, In BB			MS Windows Oracle uga me					5,358,022.34	0.00	
6	CIMS Lab, In BB		LLW105	MS Windows Oracle pga me MS Windows Oracle physica		MS Windows	6/1/2003 6/1/2003			0.00	
7	CIMS Lab, In BB		LLW108						26,124.24	0.20	
8	CIMS Lab, In BB		LLW109	MS Windows Oracle physica		MS Windows	6/1/2003		40,118.17	0.80	
9	CIMS Lab, In BB		LLW110	MS Windows Oracle write re		MS Windows	6/1/2003			0.00	
10	CIMS Lab, In BB		LLW112	MS Windows Oracle messag		MS Windows			187,653.35	0.06	M
11	CIMS Lab, In BB		LLW113	MS Windows Oracle messag	24	MS Windows	6/1/2003	6/30/2003	187,976.72	0.00	
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Figure A-59 • Invoice by Rate Group Spreadsheet Example

Invoice by Account Code Spreadsheet

File name: SINVC004.rpt

Stored Procedure: CIMSSP_Summary

This spreadsheet provides invoice information by account code for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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AAAAAAKkhoAA AAAA KK hobbes /var LLR103 Unix filesyste 19 Unix filesyste 6/3/2003 6/30, AAAAAAKkhoAA AAAA KK hobbes arsap LLD101 Unix block we 15 Unix storage 6/1/2003 6/30, AAAAAAKkhoAA AAAA KK hobbes arsap LLD101 Unix block we 15 Unix storage 6/1/2003 6/30, AAAAAAKkhoAA AAAA KK hobbes arsap LLD101 Unix block we 15 Unix storage 6/1/2003 6/30, AAAAAKkhoAA AAAA KK hobbes blayton LD101 Unix block we 15 Unix storage 6/1/2003 6/30, AAAAAKkhoAA AAAA KK hobbes deamon LLD101 Unix block we 15 Unix storage 6/1/2003 6/30, AAAAAKkhoAA AAAA KK hobbes deamon LLD101 Unix block we 15 Unix interacti 6/1/2003 6/30, AAAAAKkhoAA AAAA KK hobbes george LLA102 Unix characte 12 Unix interacti 6/1/2003 6/30, AAAAAKkhoAA AAAA KK hobbes george LLA102 Unix connect 12 Unix interacti <td< td=""><td>9 A</td><td>AAAAAAKKho AA</td><td>AAAA</td><td>кк</td><td>hobbes /var</td><td>LLR101</td><td>Unix filesyste</td><td>19</td><td>Unix filesyste</td><td>6/1/2003</td><td>6/30/2</td></td<>	9 A	AAAAAAKKho AA	AAAA	кк	hobbes /var	LLR101	Unix filesyste	19	Unix filesyste	6/1/2003	6/30/2
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Figure A-60 • Invoice by Account Code Spreadsheet Example

Proration by Total Amount Spreadsheet

File name: SPERX001.rpt

Stored Procedure: CIMSSP_Summary

This spreadsheet enables you to prorate an amount that you enter as a parameter across account codes. The percentage prorated to each account is based on the total charge incurred by the account. That is, the higher the total charge for an account, the higher the percentage of the prorate amount that is assigned to that account.

Drill down: None

Parameters:

- Account Code Level
- Prorate
- Starting and Ending Account Code
- From and To Date

Report Example

In the following example, \$100,000 is prorated across accounts for the parameters selected.

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1	Account Range: All		C	0	L	1	a	
2	Date Range: 6/1/2003 to 6/30/2003							
3	Dute Range: 07 17 2000 to 07 007 2000							
4	Account Code	Account Name	Charges		Percent	Prorated Amount		
5	AA	CIMS Lab, Inc. Roseville	88,224.31		35.77%	35,765.95		
	BB	CIMS Lab, Inc. Gibbsboro	43,922.41		17.81%	17,806.05		
7	cc	CIMS Lab, Inc. Laurel	82,184.32		33.32%	33,317.35		
8	DD	CIMS Lab, Inc. International	18,038.30		7.31%	7,312.69		
9	EE	CIMS Lab, Inc. Services	14,301.89		5.80%	5,797.96		
10	Run Total		246,671.23		100%	100,000.00		
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Figure A-61 • Proration by Total Amount Spreadsheet Example

Proration by Rate Code Spreadsheet

File name: SPERX002.rpt

Stored Procedure: CIMSSP_Summary_RateCode

This spreadsheet is similar to Proration by Total Amount report (see page A-88) except that the prorate amount is applied by account code to the rate code that you select.

Drill down: None

Parameters:

- Account Code Level
- Prorate
- Starting and Ending Account Code
- From and To Date
- Rate Code

Report Example

In the following example, \$50,000 is prorated across accounts charged for the rate code Z006 for the parameters selected.

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	ate Range: 6/1/2003 to 6/30/2003							
	JO6-Disk SIOs							
_	count Code	Account Name	Charges		Percent	Prorated Amount		
AA		CIMS Lab, Inc. Roseville	7,344.72		43.36%	21,678.91		
BE		CIMS Lab, Inc. Gibbsboro	975.22		5.76%	2,878.49		
CO	3	CIMS Lab, Inc. Laurel	5,919.47		34.94%	17,472.10		
D		CIMS Lab, Inc. International	2,700.33		15.94%	7,970.38		
) EE		CIMS Lab, Inc. Services	0.04		0.00%	0.12		
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Figure A-62 • Proration by Rate Code Spreadsheet Example

Proration by Rate Group Spreadsheet

File name: SPERX003.rpt

Stored Procedure: CIMSSP_Summary_RateGroup

This spreadsheet is similar to Proration by Total Amount report (see page A-88) except that the prorate amount is applied by account code to the rate group that you select.

Drill down: None

Parameters:

- Account Code Level
- Prorate
- Starting and Ending Account Code
- From and To Date
- Rate Group

Report Example

In the following example, \$30,000 is prorated across accounts charged for rate codes belonging to the rate group OS/390 Input/Output charges for the parameters selected.

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Ac	A	В	С	D	E	F	G	
	count Range: All							
	te Range: 6/1/2003 to 6/30/2003							
	3/390 Input/Output charges							
	count Code	Account Name	Charges		Percent	Prorated Amount		
AA		CIMS Lab, Inc. Roseville	14,179.56		50.97%	15,290.46		
BB		CIMS Lab, Inc. Gibbsboro	2,669.80		9.60%	2,878.97		
CC		CIMS Lab, Inc. Laurel	8,215.39		29.53%	8,859.02		
DD		CIMS Lab, Inc. International	2,755.62		9.91%	2,971.51		
) EE		CIMS Lab, Inc. Services	0.04		0.00%	0.04		
1 Rui	n Total		27,820.41		100%	30,000.00		
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Figure A-63 • Proration by Rate Group Spreadsheet Example

Top 10 Accounts for Rate Spreadsheet

File name: STOPC004.rpt

Stored Procedure: CIMSSP_Summary_RateCode

This spreadsheet provides the account codes with the highest usage of a specified rate code for the parameters selected. For example, if you type 3 as the TopN parameter, the three account codes with the highest rate code usage appear (see example Figure A-64). If you leave the TopN parameter blank, the account codes with the ten highest rate code usage appear.

Drill down: None

Parameters:

- TopN
- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Rate Code

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Top 10 Accounts for Rate SS				en with cel	Publ	ish	Return	Help	
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A	В	С	D	E	F	G	Н	1	1
Top 3 Accounts for Disk SIOs									_
Account Range: All									
Date Range: 6/1/2003 to 6/30/200									
Account	Units	Rate	Per 1000	Charge	%				
AA-CIMS Lab, Inc. Roseville	16,564,291			4,141.00	48.48%				
CC-CIMS Lab, Inc. Laurel DD-CIMS Lab, Inc. International	13,163,149 2,495,674			3,290.79	38.53%		-		
DD-CIMS Lab, Inc. International	2,495,674	0.25	ZIMI	623.94	7.30%				
Run Total	34,167,178			8,541.66					
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Figure A-64 • Top 10 Accounts for Rate Spreadsheet Example

Account Summary Week Spreadsheet

File name: SWEKC001.rpt

Stored Procedure: None

This spreadsheet provides account summary weekly information by account code for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Report Year
- Report Month
- Starting and Ending Account Code

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1	AccountCo	le AccountNameRateDescripti -	6/1/2003 - 6/	6/8/2003 - 6/6	j/15/2003 - €	6/22/2003 -	66/29/2003 - 6	MTD	
2	AA	CIMS Lab, In OS/390 Jobs Started	1,710.00	1,732.50	187.50			3,630.00	
3	AA	CIMS Lab, In OS/390 Steps Started	1,703.00	1,750.50	114.00			3,567.50	
4	AA	CIMS Lab, In OS/390 Cpu Minutes	1,336.29	4,642.60	307.15			6,286.04	
5	AA	CIMS Lab, In OS/390 Cpu Minutes (Ini		0.00	0.00			0.00	
6	AA	CIMS Lab, In OS/390 Cpu Minutes (All		0.00	0.00			0.00	
7	AA	CIMS Lab, In Tso Cpu Minutes	123.83	100.34	23.75			247.92	
8	AA	CIMS Lab, In Tso Connect Minutes	2,553.55	1,611.55	389.55			4,554.65	
9	AA	CIMS Lab, In Tso Inputs	31.02	20.01	6.98			58.01	
10	AA	CIMS Lab, In Tso Outputs	16.39	10.60	3.94			30.93	
11	AA	CIMS Lab, In Tso Cpu Minutes (Initiato		0.00	0.00			0.00	
12	AA	CIMS Lab, In Tso Cpu Minutes (All)	0.00	0.00	0.00			0.00	
13	AA	CIMS Lab, In Total SIOs	0.00	0.00	0.00			0.00	
14	AA	CIMS Lab, In Disk SIOs	1,938.87	1,823.76	318.66			4,081.29	
	AA	CIMS Lab, In Tape SIOs	1,626.29	1,817.30	161.42			3,605.01	
	AA	CIMS Lab, In Input Records	288.81	82.62	14.62			386.05	
17	AA	CIMS Lab, In Tape Mounts	0.00	0.00	0.00			0.00	
18	AA	CIMS Lab, In Disk Data Sets	2,258.75	2,178.00	307.00			4,743.75	
19	AA	CIMS Lab, In DB2 Transactions (Recor		0.26				0.26	
	AA	CIMS Lab, In DB2 Transaction Elapsed	Minutes	0.04				0.04	
21	AA	CIMS Lab, In MS Windows Disk Size in	MI 0.00	0.00	0.00			0.00	
22	AA	CIMS Lab, In MS Windows Number of I		0.07	0.01			0.10	
23	AA	CIMS Lab, In MS Exchange Bytes Sent	12.46	5.49	0.01			17.96	
	AA	CIMS Lab, In MS Exchange Emails Ser		0.00	0.00			0.00	
25	AA	CIMS Lab, In MS Exchange Bytes Rece		209.07	1.37			644.07	
26	AA	CIMS Lab, In MS Exchange Emails Rec	eiv 0.00	0.00	0.00			0.00	
27	AA	CIMS Lab, In MS Windows Elapsed Tim	iei 0.00	0.00	0.00			0.00	
28	AA	CIMS Lab, In MS Windows CPU Time in	n si 0.00	0.00	0.00			0.00	
29	AA	CIMS Lab, In MS Windows Kernel CPU	0.00 Tir	0.00	0.00			0.00	
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Figure A-65 • Account Summary Week Spreadsheet Example

Account Summary YTD Spreadsheet

File name: SYTDC001.rpt

Stored Procedure: None

This spreadsheet provides account summary YTD information by account code for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Report Year
- Starting and Ending Account Code

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		CIMS Lab, Inc. Roseville	January 87,381.95	February 84,449.22	March 82,234.27	April 110,604.39	May 105,392.23	June 45,536.00	July	August	Septe
_		CIMS Lab, Inc. Gibbsboro	28,984.62	36,708.66	33,246.62	71,272.80	43,056.39	20,785.13			
_		CIMS Lab, Inc. Laurel	32,868.42	53,335.49	54,213.12	81,399.72	111,072.43	50,272.32			
		CIMS Lab, Inc. International	11,079.73	4,617.21	3,701.59	7,322.87	18,517.00	9,486.55			
_		CIMS Lab, Inc. Services	6,192.87	7,787.84	6,263.57	11,549.77	9,388.33	10,187.56			
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Figure A-66 • Account Summary YTD Spreadsheet Example

Account Summary YTD by Rate Spreadsheet

File name: SYTDC002.rpt

Stored Procedure. None

This spreadsheet provides account summary YTD information by rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Report Year
- Starting and Ending Account Code

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1	AccountCode	AccountName	RateDescription	Year	January	February	March	April	May	June	
2	AA	CIMS Lab, Inc.	OS/390 Jobs Started	2003	5,307.50	7,787.50	5,122.50	7,357.50	9,247.50	3,630.00	
3	AA	CIMS Lab, Inc.	OS/390 Steps Started	2003	4,348.50	6,503.00	4,788.50	6,428.00	7,711.50	3,567.50	
4	AA	CIMS Lab, Inc.	OS/390 Cpu Minutes	2003	14,757.02	9,789.66	8,801.58	15,661.30	11,627.59	6,286.04	
5	AA	CIMS Lab, Inc.	OS/390 Cpu Minutes (Initiators)	2003	0.00	0.00	0.00	0.00	0.00	0.00	
6	AA	CIMS Lab, Inc.	OS/390 Cpu Minutes (All)	2003	0.00	0.00	0.00	0.00	0.00	0.00	
7	AA		Tso Cpu Minutes	2003	251.45	247.29	153.03	344.31	456.26	247.92	
8	AA	CIMS Lab, Inc.	Tso Connect Minutes	2003	7,831.06	7,037.75	6,325.41	15,716.42	18,821.58	4,554.65	
9	AA	CIMS Lab, Inc.	Tso Inputs	2003	63.99	66.21	32.48	76.38	130.50	58.01	
10	AA	CIMS Lab, Inc.	Tso Outputs	2003	39.98	42.02	23.79	48.16	78.78	30.93	
11	AA	CIMS Lab, Inc.	Tso Cpu Minutes (Tcb)	2003	0.00						
12	AA	CIMS Lab, Inc.	Tso Cpu Minutes (Initiator)	2003	0.00	0.00	0.00	0.00	0.00	0.00	
13	AA	CIMS Lab, Inc.	Tso Cpu Minutes (All)	2003	0.00	0.00	0.00	0.00	0.00	0.00	
14	AA	CIMS Lab, Inc.	Total SIOs	2003	0.00	0.00	0.00	0.00	0.00	0.00	
15	AA	CIMS Lab, Inc.	Disk SIOs	2003	18,905.60	7,202.18	18,071.58	11,849.47	6,138.79	4,081.29	
16	AA	CIMS Lab, Inc.	Tape SIOs	2003	5,470.00	4,928.77	5,590.77	13,405.29	6,267.71	3,605.01	
17	AA	CIMS Lab, Inc.	3390 SIO's	2003	0.00						
18	AA	CIMS Lab, Inc.	3380 SIO's	2003	0.00						
19	AA	CIMS Lab, Inc.	3375 SIO's	2003	0.00						
20	AA	CIMS Lab, Inc.	3480 SIO's	2003	0.00						
21	AA	CIMS Lab, Inc.	3420 SIO's	2003	0.00						
22	AA	CIMS Lab, Inc.	Virtual SIO's	2003	0.00						
23	AA	CIMS Lab, Inc.	Input Records	2003	660.32	696.66	597.39	621.03	1,798.41	386.05	
24	AA	CIMS Lab, Inc.	Tape Mounts	2003	0.00	0.00	0.00	0.00	0.00	0.00	
25	AA	CIMS Lab, Inc.	Disk Data Sets	2003	6,434.25	8,769.00	6,058.25	8,767.50	10,739.75	4,743.75	
26	AA	CIMS Lab, Inc.	DB2 Transactions (Records)	2003	0.52	0.52	0.26	0.78	0.52	0.26	
27	AA	CIMS Lab, Inc.	DB2 Transaction Elapsed Minutes	2003	0.12	0.09	0.02	0.25	0.05	0.04	
28	AA	CIMS Lab, Inc.	MS Windows Disk Size in MB	2003	0.00	0.00	0.00	0.00	0.00	0.00	
29	AA	CIMS Lab, Inc.	MS Windows Number of Files	2003	0.08	0.08	0.12	0.14	0.10	0.10	
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Figure A-67 • Account Summary YTD by Rate Spreadsheet Example

Account Summary YTD Cost by Rate Group Spreadsheet

File name: SYTDC003.rpt

Stored Procedure. None

This spreadsheet provides account summary YTD information by rate code description for the rate group selected for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Report Year
- Starting and Ending Account Code
- Rate Group

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1		AccountName	RateDescription	Year	January	February	March	April	Mav](
2	AA	CIMS Lab. Inc. Roseville	MS Exchange Bytes Sent	2003	3.10	6.11	4.04	7.42	24,40	18
3	AA	CIMS Lab, Inc. Roseville	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	0
4	AA	CIMS Lab. Inc. Roseville	MS Exchange Bytes Received	2003	342.53	505.63	423.82	583.32	1,403.41	666
5	AA	CIMS Lab, Inc. Roseville	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	000
6	BB	CIMS Lab, Inc. Gibbsboro	MS Exchange Bytes Sent	2003	0.01	0.02	0.00	0.22	4.69	1
7	BB	CIMS Lab. Inc. Gibbsboro	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	- 0
8	вв	CIMS Lab, Inc. Gibbsboro	MS Exchange Bytes Received	2003	68.00	105.40	47.73	58.55	158.94	121
9	вв	CIMS Lab, Inc. Gibbsboro	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	0
10	сс	CIMS Lab, Inc. Laurel	MS Exchange Bytes Sent	2003	0.00	0.12	0.00	0.00	0.78	0
11	сс	CIMS Lab, Inc. Laurel	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	0
12	сс	CIMS Lab, Inc. Laurel	MS Exchange Bytes Received	2003	49.21	106.21	86.03	89.18	122.37	55
13	сс	CIMS Lab, Inc. Laurel	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	0
14	DD	CIMS Lab, Inc. International	MS Exchange Bytes Sent	2003	0.03	1.22	0.01	0.73	0.61	0
15	DD	CIMS Lab, Inc. International	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	0
16	DD	CIMS Lab, Inc. International	MS Exchange Bytes Received	2003	93.03	141.40	96.94	175.70	60.59	28
17	DD	CIMS Lab, Inc. International	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	0
18	EE	CIMS Lab, Inc. Services	MS Exchange Bytes Sent	2003	0.00	0.00	0.00	0.25	7.74	3
19	EE	CIMS Lab, Inc. Services	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	0
20	EE	CIMS Lab, Inc. Services	MS Exchange Bytes Received	2003	0.00	0.00	0.00	2.44	373.72	158
21	EE	CIMS Lab, Inc. Services	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	0
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Figure A-68 • Account Summary YTD Cost by Rate Group Spreadsheet Example

Crosstab Reports

This section describes the CIMS Server crosstab reports. You can run a crosstab report as a report or a spreadsheet. The examples in this section show the report format.

Daily Crosstab–Charges

File name: XDAYC001.rpt

Stored procedure: CIMSSP_Summary_Day

This report provides total daily charges by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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		Total All Days	6/1/2003	6/2/2003	6/3/2003
		-			
Total All Accounts		107,686.58	5,571.68	7,255.24	10,586.1
Total All Accounts AA - CIMS Lab, Inc. Roseville	Total for Account	107,686.58	5,571.68	7,255.24 3,499.16	
	Total for Account 001 - OS/390 Jobs Started				10,586.10
		37,681.90	1,795.19	3,499.16	2,093.3
	001 - OS/390 Jobs Started	37,681.90 3,015.00	1,795.19 47.50	3,499.16 335.00	2,093.3 65.0 38.0
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started	37,681.90 3,015.00 2,884.50	1,795.19 47.50 39.00	3,499.16 335.00 321.00	2,093.3
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes	37,681.90 3,015.00 2,884.50 5,584.72	1,795.19 47.50 39.00 44.06	3,499.16 335.00 321.00 287.79	2,093.3 65.0 38.0 33.2
	001 - 05/390 Jobs Started 003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 013 - Tso Cpu Minutes	37,681.90 3,015.00 2,884.50 5,584.72 202.07	1,795.19 47.50 39.00 44.06 19.76	3,499.16 335.00 321.00 287.79 2.17	2,093.3 65.0 38.0 33.2 4.9
	001 - 06/390 Jobs Started 003 - 06/390 Steps Started 005 - 06/390 Cpu Minutes 013 - Tso Cpu Minutes 015 - Tso Connect Minutes	37,681.90 3,015.00 2,884.50 5,584.72 202.07 3,814.21	1,795.19 47.50 39.00 44.06 19.76 284.89	3,499.16 335.00 321.00 287.79 2.17 2.17	2,093.3 65.0 38.0 33.2 4.9 693.0
	001 - 05/390 Jobs Started 003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 013 - Tiso Cpu Minutes 015 - Tiso Connect Minutes 016 - Tiso Inputs	37,681.90 3,015.00 2,884.50 5,584.72 202.07 3,814.21 42.95	1,795.19 47.50 39.00 44.06 19.76 284.89 7.83	3,499.16 335.00 321.00 287.79 2.17 2.17 2.77.83 0.26	2,093.3 65.00 38.00 33.2 4.9 693.0 0.0
	001 05/390 Jobs Started 003 05/390 Steps Started 005 05/390 Cpu Minutes 013 Tao Cpu Minutes 015 Tao Connett Minutes 016 Tso Inputs 018 Tso Outputs	37,681.90 3,015.00 2,884.50 5,584.72 202.07 3,814.21 42.95 22.71	1,795.19 47.50 39.00 44.06 19.76 284.89 7.83 4.08	3,499.16 335.00 287.79 2.17 2.17 2.77.83 0.26 0.14	2,093.3 65.00 33.2 4.9 693.0 0.0 0.0
	001 05/390 Jobs Started 003 05/390 Steps Started 005 05/390 Cpu Minutes 013 Tso Cpu Minutes 015 Tso Connext Minutes 016 Tso Inputs 018 Tso Outputs 032 Diek STOs	37,681.90 3,015.00 2,884.50 5,584.72 202.07 3,814.21 42.95 22.71 3,354.28	1,795.19 47.50 39.00 44.06 19.76 284.89 7.83 4.08 31.88	3,499.16 335.00 321.00 287.79 2.17 277.83 0.26 0.14 324.12	2,093.3 65.0 38.0 33.2 4.9 693.0 0.0 0.0 34.1

Figure A-69 • Daily Crosstab–Charges Report Example

Daily Crosstab–Usage

File name: XDAYR001.rpt

Stored procedure: CIMSSP_Summary_Day

This report provides total daily resource usage by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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		Total All Days	6/1/2003	6/2/2003	6/3/2003
AA - CIMS Lab, Inc. Roseville		Total All Days	6/1/2003	6/2/2003	6/3/2003
AA - CIMS Lab, Inc. Roseville	001 - OS/390 Jobs Started	Total All Days	6/1/2003 19	6/2/2003 134	6/3/2003
AA - CIMS Lab, Inc. Roseville	001 - OS/390 Jobs Started 003 - OS/390 Steps Started				6/3/2003
AA - CIMS Lab, Inc. Roseville		1,206	19	134	
AA - CIMS Lab, Inc. Roseville	003 - OS/390 Steps Started	1,206	19	134	1.0
AA - CIMS Lab, Inc. Roseville	003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes	1,206 5,769 279.23	19 78 2.20	134 642 14.39	6/3/2003
AA - CIMS Lab, Inc. Roseville	003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 007 - OS/390 Cpu Minutes (Initiators)	1,206 5,769 279.23 2.72	19 78 2.20 0.05	134 642 14.39 0.28	1.0
AA - CIMS Lab, Inc. Roseville	003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 007 - OS/390 Cpu Minutes (Initiators) 008 - OS/390 Cpu Minutes (All)	1,206 5,769 279.23 2.72 320.00	19 78 2.20 0.05 2.35	134 642 14.39 0.28 15.44	1.4 0.1 0.7
AA - CIMS Lab, Inc. Roseville	003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 007 - OS/390 Cpu Minutes (Initiators) 006 - OS/390 Cpu Minutes (All) 013 - Tso Cpu Minutes	1,206 5,769 279.23 2.72 320.00 8.08	19 78 2.20 0.05 2.35 0.79	134 642 14.39 0.28 15.44 0.09	1.4 0.0
AA - CIMS Lab, Inc. Roseville	003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Tso Cpu Minutes 015 - Tso Connect Minutes	1,206 5,769 279.23 2.72 320.00 8.08 15,256.70	19 78 2.20 0.05 2.35 0.79 1,139.57	134 642 14.39 0.28 15.44 0.09 1,111.33	1.4 0.1 0.7
AA - CIMS Lab, Inc. Roseville	003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Tso Cpu Minutes 015 - Tso Connect Minutes 016 - Tso Inputs	1,206 5,769 279.23 2.72 320.00 8.08 15,256.70 21,477	19 78 2.20 0.05 2.35 0.79 1,139.57 3,918	134 642 14.39 0.28 15.44 0.09 1,111.33 131	2 1.4 0.4 1.4 0.2 2,772.4 2,772.4
AA - CIMS Lab, Inc. Roseville	003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Tso Cpu Minutes 015 - Tso Connect Minutes 016 - Tso Inputs 018 - Tso Outputs	1,206 5,769 279.23 2.72 320.00 8.08 15,256.70 21,477 22,709	19 78 2.20 0.05 2.35 0.79 1,139.57 3,918 4,079	134 642 14.39 0.28 15.44 0.09 1,111.33 131 139	2 1.1 0.1 1.4 0.1 2,772.1 2,772.1

Figure A-70 • Daily Crosstab–Usage Report Example

Detail by Identifier Crosstab

File name: XDETR001.rpt

Stored procedure: CIMSSP_Ident_Crosstab

This report provides total charges by rate code for a selected identifier value or values for the date range selected.

Drill down: None

Parameters:

- From and To Date
- Identifier
- Start and End Value

Report Example

In this example, the identifier selected is Exchange User and the identifier start and end values are both deborah.

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otal	1.00	20.56	72.00	773,947.00	28.00	4,994,659
Fotal Jeborah		20.56 20.56	72.00	773,947.00 773,947.00	28.00	4,994,659

Figure A-71 • Detail by Identifier Crosstab Report Example

Detail by Identifier by Date Crosstab

File name: XDETR002.rpt

Stored procedure: CIMSSP_Ident_Crosstab_StartDate

This crosstab report provides total and total daily charges by rate code for a selected identifier value or values for the date range selected.

Drill down: None

Parameters:

- From and To Date
- Identifier
- Start and End Value

Report Example

In this example, the identifier selected is Exchange User and the identifier start and end values are both deborah.

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Total		SQL Server Records 1.00	SQL Server Duration (seconds) 20.56	SQL Server Reads	Bytes Sent 773,947.00	
Total	Total	SQL Server Records 1.00	SQL Server Duration (seconds) 20.56 20.56	SQL Server Reads 72.00 72.00	Bytes Sent 773,947.00 773,947.00	
Total deborah	Total 6/2/2003	SQL Server Records 1.00 1.00	SQL Server Duration (seconds) 20.56 20.56 0.00	SQL Server Reads 72.00 72.00 0.00	Bytes Sent 773,947.00 773,947.00 0.00	· ·
Total	Total 6/2/2003 6/3/2003	SQL Server Records 1.00 0.00 0.00	SQL Server Duration (seconds) 20.56 20.56 0.00 0.00	SQL Server Reads 72.00 72.00 0.00 0.00	Bytes Sent 773,947.00 773,947.00 0.00 65,164.00	
Total	Total 6/2/2003 6/3/2003 6/4/2003	SQL Server Records 1.00 0.00 0.00 0.00	SQL Server Duration (seconds) 20.56 20.56 0.00 0.00 0.00	SQL Server Reads 72.00 72.00 0.00 0.00 0.00	Bytes Sent 773,947.00 773,947.00 0.00 65,164.00 3,465.00	
Total	Total 6/2/2003 6/3/2003 6/4/2003 6/5/2003	SQL Server Records 1.00 0.00 0.00 0.00 0.00	SQL Server Duration (seconds) 20.56 20.56 0.00 0.00 0.00 0.00	SQL Server Reads 72.00 0.00 0.00 0.00 0.00	Bytes Sent 773,947.00 0.00 65,164.00 3,485.00 0.00	
Total	Total 6/2/2003 6/3/2003 6/4/2003 6/5/2003 6/6/2003	SQL Server Records 1.00 0.00 0.00 0.00 0.00 0.00	SQL Server Duration (seconds) 20.56 20.56 0.00 0.00 0.00 0.00 0.00	SQL Server Reads 72.00 0.00 0.00 0.00 0.00 0.00	Bytes Sent 773,947.00 0.00 65,164.00 3,485.00 0.00 62,816.00	

Figure A-72 • Detail by Identifier by Date Crosstab Report Example

Monthly Crosstab-Charges

File name: XMONCO01.rpt

Stored procedure: CIMSSP_Summary_Day

This report provides total monthly charges by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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				1		
		Total All Months	06/2003			
Total All Accounts		136,267.56	136,267.56			
Total All Accounts AA - CIMS Lab, Inc. Roseville	Total for Account	136,267.56 45,536.00	136,267.56 45,536.00			
	Total for Account 001 - OS/390 Jobs Started					
		45,536.00	45,536.00			
	001 - OS/390 Jobs Started	45,536.00 3,630.00	45,536.00 3,630.00			
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started	45,536.00 3,630.00 3,567.50	45,536.00 3,630.00 3,567.50			
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes	45,536.00 3,630.00 3,567.50 6,286.04	45,536.00 3,630.00 3,567.50 6,286.04			
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 013 - Tso Cpu Minutes	45,536.00 3,630.00 3,567.50 6,286.04 247.92	45,536.00 3,630.00 3,567.50 6,286.04 247.92			
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 013 - Tso Cpu Minutes 015 - Tso Connect Minutes	45,536.00 3,630.00 3,567.50 6,286.04 247.92 4,554.65	45,536.00 3,630.00 3,567.50 6,286.04 247.92 4,554.65			
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 013 - Tso Cpu Minutes 015 - Tso Connect Minutes 015 - Tso Connect Minutes 016 - Tso Inputs	45,536.00 3,630.00 3,567.50 6,286.04 247.92 4,554.65 58.01	45,536.00 3,630.00 3,567.50 6,286.04 247.92 4,554.65 58.01			
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 013 - Tso Cpu Minutes 015 - Tso Connect Minutes 016 - Tso Inputs 018 - Tso Outputs	45,536.00 3,630.00 3,567.50 6,286.04 247.92 4,554.65 58.01 30.93	45,536.00 3,630.00 6,286.04 247.92 4,554.65 58.01 30.93			
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Figure A-73 • Monthly Crosstab–Charges Report Example

Monthly Crosstab–Usage

File name: XMONR001.rpt

Stored procedure: CIMSSP_Summary_Day

This report provides total monthly resource usage by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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AA - CIMS Lab, Inc. Roseville	001 - OS/390 Jobs Started	Total All Months 1,452	06/2003		
AA - CIMS Lab, Inc. Roseville	001 - OS/390 Jobs Started 003 - OS/390 Steps Started		-	-	
AA - CIMS Lab, Inc. Roseville		1,452	1,452	-	
AA - CIMS Lab, Inc. Roseville	003 - OS/390 Steps Started	1,452	1,452	-	
AA - CINS Lab, Inc. Roseville	003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes	1,452 7,135 314.29	1,452 7,135 314.29		
AA - CINS Lab, Inc. Roseville	003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 007 - OS/390 Cpu Minutes (Initiators)	1,452 7,135 314.29 3.44	1,452 7,135 314.29 3.44	-	
AA - CIMS Lab, Inc. Roseville	003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 007 - OS/390 Cpu Minutes (Initiators) 008 - OS/390 Cpu Minutes (All)	1,452 7,135 314.29 3.44 357.27	1,452 7,135 314.29 3.44 357.27	-	
AA - CIMS Lab, Inc. Roseville	003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Tso Cpu Minutes	1,452 7,135 314.29 3.44 357.27 9.92	1,452 7,135 314.29 3.44 357.27 9.92		
AA - CIMS Lab, Inc. Roseville	003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Tso Cpu Minutes 015 - Tso Connect Minutes	1,452 7,135 314.29 3.44 357.27 9.92 18,218.45	1,452 7,135 314.29 3.44 357.27 9.92 18,218.45	-	
AA - CIMS Lab, Inc. Roseville	003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Too Cpu Minutes 015 - Too Connect Minutes 016 - Too Inputs	1,452 7,135 314.29 3.44 357.27 9.92 18,218.45 29,003	1,452 7,135 314.29 3.44 357.27 9.92 18,218.45 29,003	-	
AA - CIMS Lab, Inc. Roseville	003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Tso Cpu Minutes 015 - Tso Connext Minutes 016 - Tso Inputs 018 - Tso Outputs	1,452 7,135 314.29 3.44 357.27 9.92 18,218.45 29,003 30,926	1,452 7,135 314.29 3.44 357.27 9.92 18,218.45 29,003 30,926		

Figure A-74 • Monthly Crosstab–Usage Report Example

Summary Crosstab-Charges

File name: XSUMC001.rpt

Stored procedure: CIMSSP_Summary

This report provides total charges by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

Summary Crosstab - Charges Publish Return Help ● ● 100% ● 1 of 1 ● 1 ● 1	1002 1 of 1 Image: State of 1 MS Ount Summary Crosstab - Charges From 6/1/2003 to 6/30/2003 05/390 Batch charges 003 - 05/390 Steps 005 - 05/390 Cpu P07 - 05/390 Cpu 01 - 05/390 Jobs 003 - 05/390 Steps 005 - 05/390 Cpu P07 - 05/390 Cpu MS Lab, Inc. Roseville 3,630.00 3,567.50 6,286.04 0.00 MS Lab, Inc. Gibbsboro 1,795.00 700.00 2,187.76 0.00 MS Lab, Inc. Laurel 745.00 1,085.50 3,109.22 0.00 MS Lab, Inc. International 285.00 1,337.50 381.43 0.00	Image:	• • • • • • • • • • • • • • •				Publish	Return Help		
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	MS Lab, Inc. International 285.00 1,337.50 381.43 0.00		DD - CIMS Lab, Inc. International 285.00 1,337.50 381.43 0.00 EE - CIMS Lab, Inc. Services 167.50 8.50 0.24 0.00	- CIMS Lab, Inc. Gibbsboro	1,795.00	700.00	2,187.76	0.00		
DD - CIMS Lab, Inc. International 285.00 1,337.50 381.43 0.00		D - CIMS Lab, Inc. International 285.00 1,337.50 381.43 0.00	E - CIMS Lab, Inc. Services 167.50 8.50 0.24 0.00	- CIMS Lab, Inc. Laurel	745.00	1,085.50	3,109.22	0.00		
	YS Lab, Inc. Services 167.50 8.50 0.24 0.00) - CIMS Lab, Inc. International	285.00	1,337.50	381.43	0.00		
EE - CIMS Lab, Inc. Services 167.50 8.50 0.24 0.00		- CIMS Lab, Inc. Services 167.50 8.50 0.24 0.00		- CIMS Lab, Inc. Services	167.50	8.50	0.24	0.00		
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				Stal All Accounts						
				Stal All Accounts						

Figure A-75 • Summary Crosstab–Charges Report Example

Summary by Rate Group Crosstab-Charges

File name: XSUMC002.rpt

Stored procedure: CIMSSP_Summary_RateGroup

This report provides total charges by account code and rate code description for the rate codes within a selected rate group for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Rate Group

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CIMS Summary By Ra	te Group X	tab - Charg	es From 6/1	/2003 to 6/30/200	03
	001 - OS/390 Jobs Started	003 - OS/390 Steps Started	005 - 05/390 Cpu Minutes	007 - OS/390 Cpu Minutes (Initiators)	
AA - CIMS Lab, Inc. Roseville	3,630.00	3,567.50	6,286.04	0.00	
	1,795.00	700.00	2,187.76	0.00	
BB - CIMS Lab, Inc. Gibbsboro					
BB - CIMS Lab, Inc. Gibbsboro CC - CIMS Lab, Inc. Laurel	745.00	1,085.50	3,109.22	0.00	
CC - CIMS Lab, Inc. Laurel	745.00 285.00	1,085.50 1,337.50	3,109.22 381.43	0.00	
CC - CIMS Lab, Inc. Laurel DD - CIMS Lab, Inc. International		,			
,	285.00	1,337.50	381.43	0.00	

Figure A-76 • Summary by Rate Group Crosstab–Charges Report Example

Summary Crosstab–Usage

File name: XSUMR001.rpt

Stored procedure: CIMSSP_Summary

This report provides total resource usage by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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Summary Crosstab - Usage			Publish	Return Hel	
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CIMS Account Summ	001 - 05/390 Jobs	003 - 05/390 Steps	005 - OS/390 Cpu	06/1/2003 to 6/30,	/2003
	Started	Started	Minutes	Minutes (Initiators)	
AA - CIMS Lab, Inc. Roseville	1,452	7,135	314.29	3.44	
BB - CIMS Lab, Inc. Gibbsboro	718	1,400	109.38	0.96	
CC - CIMS Lab, Inc. Laurel	298	2,171	155.46	1.41	
DD - CIMS Lab, Inc. International	114	2,675	19.07	3.23	
EE - CIMS Lab, Inc. Services	67	17	0.01	0.01	
Total All Accounts	2,649	13,398	598.22	9.05	J

Figure A-77 • Summary Crosstab–Usage Report Example

Summary by Rate Group Crosstab–Usage

File name: XSUMR002.rpt

Stored procedure: CIMSSP_Summary_RateGroup

This report provides total resource usage by account code and rate code description for the rate codes within a selected rate group for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Rate Group

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Summary By Ra	ate Group X	tab - Usage	Erom	6/1/2003 to 6/30/	2003
			Martin Contractor		
OS/390 Batch charges					
	001 - OS/390 Jobs	003 - 05/390 Steps	005 - OS/390 Cpu	007 - OS/390 Cpu	
	Started	Started	Minutes	Minutes (Initiators)	
AA - CIMS Lab, Inc. Roseville	1,452	7,135	314.29	3.44	
BB - CIMS Lab, Inc. Gibbsboro	718	1,400	109.38	0.96	
CC - CIMS Lab, Inc. Laurel	298	2,171	155.46	1.41	
	114	2,675	19.07	3.23	
DD - CIMS Lab, Inc. International			0.01	0.01	
DD - CIMS Lab, Inc. International EE - CIMS Lab, Inc. Services	67	17	0.01	0.01	
	67 2,649	17	598.22	9.05	

Figure A-78 • Summary by Rate Group Crosstab–Usage Report Example

Weekly Crosstab-Charges

File name: XWEKC001.rpt

Stored procedure: CIMSSP_Summary_Day

This report provides total weekly charges by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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Weekly Crosstab - Charges			Publish	Return	Help
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CIMS Account Week	ly Crosstab - Ch	arges	From 6/1/20	03 to 6/30/200	03
No. of the second s			1		1
		Total All Weeks	6/1/2003	6/8/2003	6/15/2003
Total All Accounts		Total All Weeks	6/1/2003 55,238.90	6/8/2003 72,029.64	6/15/2003 8,999.02
Total All Accounts AA - CIMS Lab, Inc. Roseville	Total for Account				
	Total for Account 001 - 05/390 Jobs Started	136,267.56	55,238.90	72,029.64	8,999.02
		136,267.56 45,536.00	55,238.90 20,722.47	72,029.64	8,999.02
	001 - OS/390 Jobs Started	136,267.56 45,536.00 3,630.00	55,238.90 20,722.47 1,710.00	72,029.64 22,149.14 1,732.50	8,999.02 2,664.39 187.50
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started	136,267.56 45,536.00 3,630.00 3,567.50	55,238.90 20,722.47 1,710.00 1,703.00	72,029.64 22,149.14 1,732.50 1,750.50	8,999.02 2,664.39 187.50 114.00
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes	136,267.56 45,536.00 3,630.00 3,567.50 6,286.04	55,238.90 20,722.47 1,710.00 1,703.00 1,336.29	72,029.64 22,149.14 1,732.50 1,750.50 4,642.60	8,999.02 2,664.39 187.50 114.00 307.15
	001 - 05/390 Jobs Started 003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 013 - Tso Cpu Minutes	136,267.56 45,536.00 3,630.00 3,567.50 6,286.04 247.92	55,238.90 20,722.47 1,710.00 1,703.00 1,336.29 123.83	72,029.64 22,149.14 1,732.50 1,750.50 4,642.60 100.34	8,999.02 2,664.39 187.50 114.00 307.15 23.75
	001 - OS/390 Jobs Started 003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes 013 - Tso Cpu Minutes 015 - Tso Connect Minutes	136,267.56 45,536.00 3,630.00 3,567.50 6,286.04 247.92 4,554.65	55,238.90 20,722.47 1,710.00 1,703.00 1,336.29 123.83 2,553.55	72,029.64 22,149.14 1,732.50 1,750.50 4,642.60 100.34 1,611.55	8,999.02 2,664.39 187.50 114.00 307.15 23.75 389.55
	001 - 05/390 Jobs Started 003 - 05/390 Steps Started 005 - 05/390 Cpu Minutes 013 - Tso Cpu Minutes 015 - Tso Connect Minutes 016 - Tso Inputs	136,267.56 45,536.00 3,630.00 3,567.50 6,286.04 247.92 4,554.65 58.01	55,238.90 20,722.47 1,710.00 1,703.00 1,336.29 123.83 2,553.55 31.02	72,029.64 22,149.14 1,732.50 1,750.50 4,642.60 100.34 1,611.55 20.01	8,999.02 2,664.39 187.50 114.00 307.15 23.75 389.55 6.98
	001 - 05/390 Jobs Started 003 - 05/390 Step Started 005 - 05/390 Cpu Minutes 013 - Teo Cpu Minutes 015 - Teo Connett Minutes 016 - Teo Inputs 018 - Teo Outputs	136,267.56 45,536.00 3,630.00 3,567.50 6,286.04 247.92 4,554.65 58.01 30.93	55,238.90 20,722.47 1,710.00 1,703.00 1,336.29 123.83 2,553.55 31.02 16.39	72,029.64 22,149.14 1,732.50 1,750.50 4,642.60 100.34 1,611.55 20.01 10.60	8,999.02 2,664.39 187.50 114.00 307.15 23.75 389.55 6.98 3.94
	001 05/390 Jobs Started 003 05/390 Steps Started 005 05/390 Cpu Minutes 013 Tso Cpu Minutes 015 Tso Connect Minutes 016 Tso Inputs 018 Tso Outputs 019 Disk SIOs	136,267.56 45,536.00 3,630.00 3,567.50 6,286.04 247.92 4,554.65 58.01 30.93 4,081.29	55,238.90 20,722.47 1,710.00 1,703.00 1,336.29 123.83 2,553.55 31.02 16.39 1,938.87	72,029.64 22,149.14 1,732.50 1,750.50 4,642.60 100.34 1,611.55 20.01 10.60 1,823.76	8,999.02 2,664.39 117.50 1114.00 307.15 23.75 389.55 6.98 3.94 318.66

Figure A-79 • Weekly Crosstab–Charges Report Example

Weekly Crosstab–Usage

File name: XWEKR001.rpt

Stored procedure: CIMSSP_Summary_Day

This report provides total weekly resource usage by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date

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CIMS Account Week	ly Crosstab - Res	source Usa	age From 6/	1/2003 to 6/30)/2003
		Total All Weeks	6/1/2003	6/8/2003	6/15/2003
AAAAAA - Roseville - CIMS					
Lab Administration	001 - OS/390 Jobs Started	2,037	527	474	41
	003 - OS/390 Steps Started	11,769	3,060	3,151	2,15
	003 - OS/390 Steps Started 005 - OS/390 Cpu Minutes	11,769	3,060	3,151 64.05	
	· · · ·		,	,	39.2
	005 - OS/390 Cpu Minutes	235.50	57.56	64.05	39.2
	005 - OS/390 Cpu Minutes 007 - OS/390 Cpu Minutes (Initiators)	235.50	57.56	64.05	39.2
	005 - OS/390 Cpu Minutes 007 - OS/390 Cpu Minutes (Initiators) 008 - OS/390 Cpu Minutes (All)	235.50 5.45 254.29	57.56 1.42 62.48	64.05 1.48 68.96	39.2 39.2 0.9 42.6
	005 - OS/390 Cpu Minutes 007 - OS/390 Cpu Minutes (Initiators) 008 - OS/390 Cpu Minutes (All) 013 - Tso Cpu Minutes	235.50 5.45 254.29 1.18	57.56 1.42 62.48 0.47	64.05 1.48 68.96 0.04	39.2 0.9 42.6 0.2 1,963.3
	005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Tso Cpu Minutes 015 - Tso Connect Minutes	235.50 5.45 254.29 1.18 8,779.67	57.56 1.42 62.48 0.47 2,854.19	64.05 1.48 68.96 0.04 225.67	39.2 0.9 42.6 0.2 1,963.3 51
	005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Tso Cpu Minutes 015 - Tso Connect Minutes 016 - Tso Inputs	235.50 5.45 254.29 1.18 8,779.67 1,423	57.56 1.42 62.48 0.47 2,854.19 302	64.05 1.48 68.96 0.04 225.67 22	39.2 39.2 0.9 42.6 0.2 1,963.3 51 54
	005 - 05/390 Cpu Minutes 007 - 05/390 Cpu Minutes (Initiators) 008 - 05/390 Cpu Minutes (All) 013 - Tso Cpu Minutes 015 - Tso Connext Minutes 016 - Tso Inputs 018 - Tso Outputs	235.50 5.45 254.29 1.18 8,779.67 1,423 1,543	57.56 1.42 62.48 0.47 2,854.19 302 330	64.05 1.48 68.96 0.04 225.67 22 26	39.2 39.2 0.9 42.6 0.2 1,963.3 51 54

Figure A-80 • Weekly Crosstab–Usage Report Example

Templates

This section describes CIMS Server report templates. These templates are launched when you create a report in CIMS Server Web Reporting (see *Creating and Running CIMS Web User Created Reports* on page 2-9). Templates can be customized, but custom templates must be stored in the same directory as the standard templates. If CIMS Server is installed in the default path, the location is C:\Program Files\CIMSLab\Server\Reports\ Standard\Templates. Please consult CIMS Lab before you customize templates.

Report Both Template

File name: RTMPB001.rpt

Stored procedure: CIMSSP_Summary

This template produces Both reports that show resource usage and charges by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Four rate codes (selected when report was created)
- Four decimal place options (selected when report was created)

Report Examples

Figure A-81 shows the creation of a Both report called Job Report. Figure A-82 shows the resulting report that has been run from the **Reports** menu.

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Figure A-81 • Creating a Report Example

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⊕-Administrative Services	OILIO	- 1					
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Department of Transportation E-Department of Corrections	Job Report						
	Account Range: All Accounts						
	Date Range: 11/1/2004 to 11/30/	2004					
	Account	Mainframe Jobs Started	Mainframe Jobs Started Cost	Mainframe Cpu Minutes	Mainframe Cpu Minutes Cost		
	AA-Administrative Services						
		9.00	18.00				
	AA-Administrative Services BB-Health & Human Services	9.00		9.61	96.10		
		117.00	18.00 234.00	9.61	96.10		
	BB-Health & Human Services	117.00		9.61 39.66	96,10 396,65		
	BB-Health & Human Services CC-Department of Transportatio	117.00	234.00				
	BB-Health & Human Services CC-Department of Transportatio	117.00 on 6.00	234.00 12.00	39.66	396.65		
	BB-Health & Human Services CC-Department of Transportatic DD-Department of Corrections	117.00 on 6.00 9.00	234.00 12.00 18.00	39.66 0.32	396.65 3.24		
6	BB-Health & Human Services CC-Department of Transportatic DD-Department of Corrections	117.00 on 6.00 9.00	234.00 12.00 18.00	39.66 0.32	396.65 3.24		

Figure A-82 • Generated Report Example

The preceding examples are also applicable to the Cost and Resource reports with the following exceptions:

- The Report Type is Cost or Resource rather than Both.
- The resulting report shows resource usage or charges, not both.

Report Cost Template

File name: RTMPC001.rpt

Stored procedure: CIMSSP_Summary

This template produces Cost reports that show charges by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Eight rate codes (selected when report was created)
- Eight decimal place options (selected when report was created)

Report Example

See page A-108.

Report Resource Template

File name: RTMPR001.rpt

Stored procedure: CIMSSP_Summary

This template produces Resource reports that show resource usage by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Eight rate codes (selected when report was created)
- Eight decimal place options (selected when report was created)

Report Example

See page A-108.

Spreadsheet Both Template

File name: STMPB001.rpt

Stored Procedure. None

This template produces Both spreadsheets that show resource usage and charges by account code and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Four rate codes (selected when spreadsheet was created)
- Four decimal place options (selected when spreadsheet was created)

Report Example

Figure A-82 shows the creation of a Both spreadsheet called Oracle Usage. Figure A-83 shows the resulting report that has been run from the **Spreadsheets** menu.

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Column 2: LLE102 - Oracle Session	CPU	~			2		
Column 3: LLE103 - Oracle Connect	t	*			2		
Column 4: LLE104 - Oracle Uga Mer	nory	*			2		
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Figure A-83 • Creating a Spreadsheet Example

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2	AccountName	AccountCode	Oracle Logins O	racle Logins C	racle Sessio O	racle Sessio	Oracle Conne	ct	Oracle Conne (Dracle Uga Memory	Oracle Uga I
	CIMS Lab, In		40.00	0.80	320.88	73.77	2,514.90		1,131.71	7,073,367.38	17.66
4	CIMS Lab, In	BB			58.57	13.50	2,520.00		1,134.00	64,150.92	0.15
5	CIMS Lab, In	cc	10.00	0.20	53.07	12.21	3,240.21		1,458.10	2,445,944.94	6.11
6	CIMS Lab, In	EE	95.00	1.90	811.20	186.58	2,078.07		935.14	9,671,392.14	24.20
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Figure A-84 • Generated Spreadsheet Example

The preceding examples are also applicable to the Cost and Resource spreadsheets with the following exceptions:

- The Spreadsheet Type is Cost or Resource rather than Both.
- The resulting spreadsheet shows resource usage or charges, not both.

Spreadsheets Cost Template

File name: STMPC001.rpt

Stored Procedure. None

This template produces Cost reports that show charges by account and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Eight rate codes (selected when spreadsheet was created)
- Eight decimal place options (selected when spreadsheet was created)

Report Example

See page A-111.

Spreadsheets Resource Template

File name: STMPR001.rpt

Stored Procedure. None

This template produces Resource spreadsheets that show resource usage by account and rate code description for the parameters selected.

Drill down: None

Parameters:

- Account Code Level
- Starting and Ending Account Code
- From and To Date
- Eight rate codes (selected when spreadsheet was created)
- Eight decimal place options (selected when spreadsheet was created)

Report Example

See page A-111.



Glossary

ASP • Acronym for Active Server Pages. A server-side scripting environment developed by Microsoft for developing Web pages and applications.

CIMS Server Resource File • The resource file that contains the data that is input into CIMS Server. The CIMS Server Resource File contains CIMS Server Resource Records. These records are comma-delimited and can contain a very large number of resource identifiers and resources. *See also identifier and rate code*.

cookie • A small text file that stores information about a Web site user. CIMS Server Web Reporting stores user information, such as the report parameter values entered by a user, in a cookie.

identifier • In the CIMS Server Resource Record, a unique key that denotes the source of a resource that has been consumed. Examples include device name, server name, system ID, phone number, user ID, state code or building number. A consumed resource can have one to many identifiers.

IIS • Acronym for Internet Information Services. Microsoft software that supports Web site creation, configuration, and management.

ODBC • Acronym for Open Database Connectivity. An interface providing a common language for database access.

rate code • A rate code represents the resource units being reported (for example, CPU time, transactions processed or lines printed). The rate code includes the value for the resource and other rate processing information.

stored procedure • A set of SQL statements that can perform both queries and actions that allow the system to generate a report or reports.

URL • Acronym for Uniform Resource Locator. The address for a resource on the Internet or an intranet.

XML • Acronym for Extensible Markup Language. A meta-markup language that provides a format for describing structured data. XML allows for more precise declarations or content and more meaningful search results across multiple platforms.

Glossary



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